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## Letter of Transmittal

Attention:	Mr. Christopher Black	Date:	September 13, 2016
	Environmental Scientist		
Address	USEPA Region 5 77 West Jackson Blvd. LU-9J Chicago, IL 60604		
Project references:	Former Warner Electric, Roscoe, IL	Project number:	60508313.001

### We are sending you the following:

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2	1 (electronic)	2016 Second Quarter Progress Report, Former Warner Electric Division, Dana Companies LLC, Roscoe, IL
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### REMARKS:

SIGNED:

James A. Buss, P.G.



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September 11, 2015

Mr. Chris Black  
EPA Project Coordinator  
U.S. Environmental Protection Agency, Region 5  
77 West Jackson Blvd.  
Corrective Action Section, LU-9J  
Chicago, IL 60604-3590

**Subject: 2015 Second Quarter Progress Report, Former Warner Electric Clutch and Brake Facility, Roscoe, Illinois (RCRA-05-2013-0005)**

Dear Mr. Black:

This progress report documents the results of groundwater monitoring activities at the former Warner Electric Clutch and Brake facility (Warner) in Roscoe, Illinois following the second quarter monitoring in 2015. This report is provided in accordance with the Amended Administrative Order on Consent (AAOC) between Dana Companies LLC (Dana) and the United States Environmental Protection Agency Region 5 (USEPA), dated April 17, 2013. This report supports the USEPA letter of June 17, 2014, which found that the project has successfully completed construction of the remedy, which is designed to achieve long term protection of human health and the environment (CA550 – event code).

Overall, the monitoring results are consistent with past sampling events. On-site source area and long term monitoring wells show chlorinated volatile organic compound (CVOC) concentrations well below the intermediate cleanup criteria and in some cases below the long term cleanup criteria. Two source area wells (MW-103 and MW-104) where TCE concentrations increased during the second quarter of 2014 continue to show lower concentrations, similar to those recorded during the past two quarterly events, and fourth quarter of 2014. Oxidation reduction potential (ORP) and dissolved oxygen levels remained low in these wells. More importantly, long term monitoring wells at and near the facility property boundary, as well as those along Edgemere Terrace, continue to show concentrations below the intermediate cleanup goals and in most cases below the long term cleanup goals.

As discussed during our meeting on June 11, given the long term success of remedial efforts at this site, we are proposing to reduce sampling at select monitoring wells and to refocus potential contingency response actions that would be undertaken in the highly unlikely event that groundwater concentrations in monitoring wells along Edgemere Terrace were to exceed the intermediate cleanup criteria. Results from this monitoring event support this request as outlined in the Recommendations Section at the end of this letter.

### **Background**

Dana conducted remediation activities at the Warner site under an Administrative Order on Consent (AOC) between the USEPA and Dana, dated December 28, 1989. During most of the time the AOC was in place, remediation was accomplished through the capture and treatment of affected groundwater near the Rock River, approximately 1.25 miles downgradient from the Warner facility (Figure 1). However, the system became increasingly inefficient and ineffective as concentrations of hazardous constituents, primarily trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE), decreased over time. By 2007, influent concentrations had decreased to a level below the National Pollution Discharge Elimination System (NPDES) permitted effluent limits, and the system no longer provided any substantive remedial benefit.

At this point, Dana approached the USEPA and requested an amendment to the AOC to refocus remedial activities to the Warner facility where residual impacts remained. As part of this effort, Dana developed the 2007 Work Plan that employed enhanced reductive dechlorination (ERD) and soil vapor extraction (SVE) to address residual subsurface impacts at the facility, and groundwater monitoring to document the success of remedial efforts. In 2009, following revisions to address USEPA comments, a final version of the Work Plan was approved by the USEPA.

In 2010, the USEPA issued a Statement of Basis outlining historic remedial efforts at the site and revised the planes of performance for long-term remediation at the site.

To expedite remediation of the facility, Dana voluntarily undertook the remedial efforts outlined in the Work Plan prior to the promulgation of the revised AOC. In April 2010, an ERD program, consisting of 300 injection points was implemented and the SVE system was brought on-line. The SVE system operated until September 2011, when influent sampling showed the system had reduced concentrations by a factor of nearly 9,000x and little rebound was noted following system shutdown. In 2013, when groundwater levels rose following a drought, TCE concentrations in the source area increased. To address this, Dana conducted a supplemental ERD program, which returned CVOC concentrations to levels well below the Intermediate Cleanup Criteria. Also in 2013, the AAOC, which provides the current regulatory framework for continued remedial activities, was implemented.

The AAOC uses the existing groundwater treatment system as a contingency in the event that results from monitoring wells on Edgemere Terrace exceed the Intermediate Cleanup Criteria. However, as noted in the 2009 Work Plan and the USEPA Statement of Basis (USEPA, 2010), the groundwater treatment system has reached the end of its effective life. It is highly wasteful of water, energy inefficient, and does nothing to reduce COVC concentrations. Nevertheless, Dana appreciates the need to retain a contingency that can be relied upon to reduce CVOC concentrations to levels below the Intermediate Cleanup Criteria in the unlikely event the CVOC concentrations in monitoring wells on Edgemere Terrace were to exceed the criteria. To this end, we propose use of enhanced reductive dechlorination (ERD) as a more appropriate and proven remedial contingency that would reduce CVOC concentrations, not simply capture them. This contingency is addressed in more detail in the recommendations section of this letter.

### **Groundwater Monitoring**

Since 2009, groundwater monitoring has been conducted quarterly at a series of 19 monitoring wells in accordance with the 2009 Work Plan. Figures 1 and 2 depict the overall location of the project and the position of the monitoring wells relative to the facility and the Rock River.

During the week of June 15 to 19, 2015, Dana collected quarterly groundwater samples from 19 monitoring wells. As in the past, samples were collected using low-flow sampling techniques with a bladder pump. Stabilization was accomplished with field readings of pH, specific conductance, temperature, dissolved oxygen, and ORP. Following stabilization, laboratory-supplied sample containers were filled directly from the pump discharge without filtration. Samples were stored on ice prior to delivery to the PACE Analytical Services, Inc., (PACE) for laboratory analysis of the site-related CVOCs and total chromium. Quality control samples included field duplicates and rinse blanks (10 percent of the samples collected), trip blanks (one per cooler), laboratory method blanks, and surrogate spike samples.

Tables 1 through 4 present tabulated summaries of the field and laboratory analysis. Figures 3 through 22 present time concentration graphs for TCE and cis-1,2-DCE. Attachment A contains the laboratory analytical report. Following are pertinent observations regarding the results and trends noted on the figures and tables.

On-site Source Area Wells MW-101 through MW-107 (Table 1, Figures 3 through 9):

- Wells MW-101 and MW-102 (Figure 3 and Figure 4) showed low concentrations of TCE that were within historic post-injection concentration range.
- Wells MW-103 and MW-104 (Figure 5 and Figure 6) where increases in TCE concentrations were reported in the second quarter of 2013 and 02014, showed stable to decreasing concentrations with 18.4 and 17.5 µg/L, respectively. ORP (-13 and -40 mVolts) and dissolved oxygen (0.8 and 1.6 mg/L) remain low, which shows conditions remain favorable for continued reductive dechlorination.
- MW-105 (Figure 7), which could not be sampled during the previous event, reported only a trace TCE concentration (0.98 µg/L). Vinyl chloride was reported at an identical concentration to the fourth quarter 2014 result (43.3 µg/L). However, as the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria. Vinyl chloride has not been detected in the downgradient wells on Hononegah Road or Edgemere Terrace. Table 1 and Figure 7 also show that the TCE concentration increases observed in during the second quarter of 2013 and 2014 in wells MW-103 and MW-104 was reflected with concentrations no higher than 51 µg/L and 16 µg/L in MW-105. This demonstrates a strong degree of natural attenuation immediately down gradient of the source area between MW-103 and MW-105.
- Wells MW-106 and MW-107 (Figure 8 and Figure 9) continue to show trace to low TCE concentrations (less than 10 µg/L) with stable conditions.
- Quarterly monitoring results and trends in these wells over the past five years clearly reflect long-term MNA.

On-site Long-term Monitoring Wells - LTMW-01, -02, -03, and -03A (Table 2, Figures 10 through 13):

- Wells LTMW-01 and LTMW-02 (Figure 10 and Figure 11) continue to meet the long-term cleanup criteria for all CVOCs.
- Wells LTMW-03 (Figure 12, a shallow monitoring well) and LTMW-03A (Figure 13, a deep monitoring well) reported low TCE concentrations (32.6 and 27 µg/L), slightly above the long-term cleanup criteria for TCE (5 µg/L). Vinyl chloride concentrations of 8 and 6.3 µg/L, while above the long term cleanup criteria (2 µg/L), are lower than the 2014 results. The presence of vinyl chloride reflects reductive dechlorination. As the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria within the next several monitoring events.
- Quarterly monitoring results and trends in these wells over the past four years clearly reflect long-term MNA.

Off-site Long-term monitoring Wells on Hononegah Road - LTMW-04, -05, -06, -07 (Table 3, Figures 14 through 18):

- The wells along Hononegah Road continue to show stable conditions. Figure 14 depicts the long term TCE concentration trend at this location, using both the original well (N1-60), which was abandoned in 2005, as well as the new long term monitoring wells installed in 2009 (LTMW-04 through -07). As Figure 14 illustrates, there has been a dramatic reduction in TCE concentration over time. In the late 1980s TCE concentrations ranged from 1,000 to 1,400 µg/L (these high concentrations are not shown on the figure in order to maintain a useful scale for depicting current concentrations). In the 1990s, TCE concentrations decreased to levels below 500 µg/L. From 2000 to 2005, TCE concentrations continued to fall to levels below 50 µg/L where they remain today. Given this long term stable condition, less frequent (semi-annual) monitoring of these wells is recommended. Less frequent monitoring is particularly applicable at this location since these wells are only used to judge long term concentration trends (as opposed to the source area or Edgemere Terrace, where monitoring results may be used to trigger a contingency response).

- Figure 15 and Figure 18 show that TCE concentrations in wells LTMW-04 and LTMW-07 near the western and eastern boundary of the zone of affected groundwater, respectively, have low TCE concentrations (11.5 µg/L at LTMW-04 and <0.33 µg/L at LTMW-07). This reflects the shrinking of the area of affected groundwater at the margins.
- Figure 16 and Figure 17 show that TCE concentrations in wells LTMW-05 and LTMW-06 showed stable TCE concentrations 9.7 and 23.5 µg/L, respectively, reflecting conditions near the center of the zone of affected groundwater.
- Quarterly monitoring results and trends in these wells over the past four years, coupled with periodic monitoring dating back to 1987 clearly reflects long-term MNA and reduction in groundwater concentrations. The very stable concentrations over the past four years support a request for less frequent monitoring at these wells.

Off-site Long-term Monitoring Wells along Edgemere Terrace - LTMW-08, -09, -10, -11 (Table 4, Figures 19 through 22):

- Figure 19 and Figure 22 show that wells LTMW-08 and LTMW-11, near the western and eastern boundary of the zone of affected groundwater, respectively, continue to reflect minimal impact with TCE concentrations (less than 3 µg/L), below the long-term cleanup criteria. As with wells LTMW-04 and LTMW-07 on Hononegah Road, this again reflects shrinking of the margins of the area of affected groundwater.
- Figures 20 and 21 show that wells LTMW-09 and LTMW-10, located near the center of the zone of affected groundwater, showed TCE concentrations (6.2 and 6.9 µg/L, respectively) that are well below the intermediate groundwater cleanup criteria (25 µg/L) and approaching the long term cleanup criteria (5 µg/L).
- The long term trends at the four monitoring wells on Edgemere Terrace, clearly reflects that stable and reducing trends in groundwater concentrations of CVOCs. The physical, chemical and biological processes acting to attenuate the low to trace concentrations that remain in the aquifer will continue in this fashion. Although there are no reasonable circumstances that could lead to concentrations in these wells rising to levels above the intermediate cleanup criteria, we appreciate the need to maintain a contingency to address this potential issue.

### **Recommendations**

Based on the successful remedial efforts, coupled with the long term stability in monitoring results and our June 11 meeting request, we reiterate the following requested modifications to the sampling and contingency programs.

Sampling Request – We respectfully request a reduction in the sampling frequency from quarterly to semi-annual at monitoring wells LTMW-04, -05, -06, and -07, located on Hononegah Road, where stable CVOC conditions exist.

Contingency Request – The AAOC stipulates that the groundwater remediation system on Edgemere Terrace shall be brought back on line in the event that groundwater concentrations in wells along Edgemere Terrace (LTMW-08, -09, -10, and -11) exceed the intermediate cleanup criteria. However, as described in the background section of this letter, the remediation system has reached the end of its effective life. It cannot effectively or efficiently address the low concentrations of CVOCs and shrinking extent of affected groundwater.

Nevertheless, we appreciate the need to maintain an appropriate contingency to address this potential issue. ERD, given its successful application at the Warner facility, would serve as such an appropriate contingency. ERD is flexible; should monitoring show that a well or group of wells was exceeding the Intermediate Criteria, an injection gallery could be designed to address these well(s). In addition, application of ERD would lead to the destruction of CVOCs which will reduce the CVOC concentrations, not simply the capture of impacted water. Given the very low TCE concentrations along Edgemere Terrace, ERD application would generate virtually no risk of vapor intrusion risk. ERD is designed to work

with the existing physical, chemical and biological processes that are acting to attenuate the CVOCs. Based on successful ERD efforts near the source area, we believe that this option offers a more appropriate and effective contingency to address potential increases of CVOCs in monitoring wells along Edgemere Terrace.

With your concurrence, we will prepare a brief work plan that will address the modified sampling schedule for wells on Hononegah Road as well as the contingency plan to use ERD in the event groundwater concentration along Edgemere Terrace exceed the Intermediate Criteria.

### **Conclusions**

Dana conducted quarterly groundwater sampling at 19 monitoring wells associated with the Warner facility for the last five years. Results continue to show that remedial efforts conducted at the source area have been successful. Concentrations of CVOCs are below Intermediate Cleanup Criteria and in some cases below Long Term Cleanup Criteria. Based on this success, we have requested a reduction in the sampling frequency from quarterly to semi-annual at four monitoring wells located on Hononegah Road (LTMW-04, -05, -06, and -07). In addition, we have requested approval of ERD as an appropriate contingency to address the potential for CVOC concentrations in monitoring wells along Edgemere Terrace near the Rock River (LTMW-08, -09, -10, and -11) to exceed Intermediate Criteria.

Please do not hesitate to contact me at (608) 828-8210 if you have any questions or comments on this letter or the attached figures or tables.

Sincerely,



James A. Buss, P.G  
Project Manager

Cc: Craig Campbell, Dana Companies, LLC

Attachments:

Tables

- Table 1 – Summary of Source Area Monitoring Well Sampling Results
- Table 2 – Summary of On-site Long-term Monitoring Well Sampling Results
- Table 3 – Summary of Hononegah Road Long-term Monitoring Well Sampling Results
- Table 4 – Summary of Edgemere Terrace Long-term Monitoring Well Sampling Results

Figures

- Figure 1 – Site Location Map
- Figure 2 – Monitoring Well Location Plan
- Figure 3 – MW-101 CVOC Concentration Trend
- Figure 4 – MW-102 CVOC Concentration Trend
- Figure 5 – MW-103 CVOC Concentration Trend
- Figure 6 – MW-104 CVOC Concentration Trend
- Figure 7 – MW-105 CVOC Concentration Trend
- Figure 8 – MW-106 CVOC Concentration Trend
- Figure 9 – MW-107 CVOC Concentration Trend
- Figure 10 – LTMW-01 CVOC Concentration Trend
- Figure 11 – LTMW-02 CVOC Concentration Trend
- Figure 12 – LTMW-03 CVOC Concentration Trend
- Figure 13 – LTMW-03A CVOC Concentration Trend
- Figure 14 – Long Term TCE Concentration Trend at Hononegah Road

- Figure 15 – LTMW-04 CVOC Concentration Trend
- Figure 16 – LTMW-05 CVOC Concentration Trend
- Figure 17 – LTMW-06 CVOC Concentration Trend
- Figure 18 – LTMW-07 CVOC Concentration Trend
- Figure 19 – LTMW-08 CVOC Concentration Trend
- Figure 20 – LTMW-09 CVOC Concentration Trend
- Figure 21 – LTMW-10 CVOC Concentration Trend
- Figure 22 – LTMW-11 CVOC Concentration Trend

**Laboratory Data**

Attachment 1 – June 2015 Laboratory Analytical Report

TABLES

## Tables

**Table 1**  
**Source Area Monitoring Well Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters						Inorganics				Volatile Organic Compounds							
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
<b>Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells<sup>(1)</sup></b>																			
MW-101	9/16/2008	25.59	728.29	14.0	6.65	840	311	2.0	NM	NM	NM	<1.0	<1.0	<1.0	35.7	3	<1.0	<1.0	
	9/26/2008	NM <sup>(2)</sup>	NM <sup>(2)</sup>	NM	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	
	10/8/2008	26.04	727.84	14.6	6.24	2,280	-569	1.5	327,000	5,440	<0.40	29.3	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	727.23	13.9	7.12	940	-130	1.0	35,700	863	0.73	13.2	<1.0	<1.0	<1.0	7.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	726.88	13.3	7.71	825	-255	0.2	14,700	273	0.51	11.6	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	726.63	12.9	7.82	788	-273	0.2	12,600	126	<0.40	9.5	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
	3/10/2010	27.55	726.33	13.7	7.40	724	-128	0.8	3,230	5.7	NM	<1.0	<1.0	<1.0	16.6	6.4	<1.0	<1.0	
	5/27/2010	26.96	726.92	15.0	7.22	1127	-152	1.6	40,100	792	NM	5.2	5.6	<1.0	<1.0	40.8	8.1	<1.0	<1.0
	7/1/2010	27.12	726.76	14.7	7.10	740	-10	0.1	7,690	132	NM	11.1	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	7/29/2010	26.95	726.93	17.9	7.83	817	-290	0.1	7,870	136	NM	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	
	8/31/2010	26.55	727.33	18.5	7.69	787	-249	0.0	6,030	160	NM	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	
	9/24/2010	27.08	726.80	16.2	7.69	783	-256	0.1	5,860	149	NM	14.2	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/4/2010	27.79	726.09	14.3	7.54	711	-164	1.0	4,010	189	NM	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	
	11/29/2010	28.23	725.65	13.0	7.54	730	-147	0.7	3,140	174	NM	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	
	12/20/2010	28.48	725.40	13.9	7.43	712	-129	1.6	2,820	126	NM	16.6	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	3/22/2011	28.13	725.75	14.2	7.43	716	-145	0.9	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	
	7/7/2011	28.08	725.80	17.2	7.61	759	-148	0.8	NM	NM	NM	<0.9	<0.75	<0.45	1.7	<0.83	<0.89	<0.18	
	9/23/2011	28.79	725.09	28.8	7.44	712	-132	2.4	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	
	12/21/2011	29.14	724.74	15.8	7.39	665	-120	3.1	NM	NM	NM	<0.9	<0.75	<0.45	1.5	<0.83	<0.89	<0.18	
	3/6/2012	29.5	724.38	15.2	7.47	692	-74	0.6	NM	NM	NM	<0.9	<0.75	<0.45	1.5	<0.83	<0.89	<0.18	
	6/7/2012	29.96	723.92	14.8	7.46	716	-125	2.0	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	
	9/27/2012	32.63	721.25	14.9	7.35	788	-95	4.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	12/20/2012	32.22	721.66	14.9	7.33	795	-38	4.6	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	3/9/2013	31.64	722.24	14.4	7.35	726	-16	4.2	NM	NM	NM	<0.9	<0.75	<0.45	0.50 J	<0.83	<0.89	<0.18	
	5/20/2013	27.7	726.18	15.2	7.31	725	-54	3.5	NM	NM	NM	<0.44	<0.28	<0.47	4.6	<0.42	<0.37	<0.18	
	8/27/2013	26.7	727.18	17.2	7.39	741	-57	3.7	NM	NM	NM	<0.44	<0.28	<0.47	4.3	<0.42	<0.37	<0.18	
	12/11/2013	28.8	725.08	15.3	7.19	718	5	5.2	NM	NM	NM	<0.44	<0.28	<0.47	12.8	<0.42	<0.37	<0.18	
	3/11/2014	29.39	724.48	15.2	7.24	725	-74	4.0	NM	NM	NM	0.58 J	0.49 J	<0.47	22.6	0.90 J	<0.37	<0.18	
	6/25/2014	28.09	725.79	16.8	7.26	733	23	4.6	NM	NM	NM	0.68 J	0.55 J	<0.50	24.3	1.9	<0.26	<0.18	
	8/24/2014	28.25	725.63	15.9	7.28	763	-17	5.2	NM	NM	NM	<0.50	0.53 J	<0.50	26.8	3.6	<0.26	<0.18	
	12/17/2014	29.44	724.44	15.5	7.10	755	19	6.3	NM	NM	NM	<0.50	<0.24	<0.50	20.9	1.7	<0.26	<0.18	
	3/3/2015	30.16	723.72	15.2	7.74	784	3	5.5	NM	NM	NM	<0.50	0.47 J	<0.50	16	2.3	<0.26	<0.18	
	6/17/2015	29.89	723.99	15.9	7.28	767	-6	5.7	NM	NM	NM	0.63 J	0.72 J	<0.50	19.3	3.6	<0.26	<0.18	
MW-102	9/16/2008	25.40	728.32	14.0	6.49	854	331	2.0	NM	NM	NM	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0	
	9/26/2008, S <sup>(3)</sup>	NM	NM	15.6	6.96	855	270	8.8	NM	NM	NM	2.3	1	<1.0	106 <sup>(5)</sup>	17.1	<1.0	<1.0	
	9/26/2008, D <sup>(4)</sup>	NM	NM	15.2															

**Table 1**  
**Source Area Monitoring Well Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
<b>Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells<sup>(1)</sup></b>																			
MW-102 continued	7/7/2011	27.90	725.82	17.6	7.42	750	-51	1.8	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18	
	9/23/2011	28.68	725.04	15.7	7.32	703	-42	2.8	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18	
	12/21/2011	29	724.72	15.8	7.36	642	-75	2.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.5	< 0.83	< 0.89	< 0.18	
	3/6/2012	29.5	724.22	15.1	7.50	655	-55	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.1	< 0.83	< 0.89	< 0.18	
	6/7/2012	29.84	723.88	14.5	7.38	665	-50	0.6	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.2	< 0.83	< 0.89	< 0.18	
	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.8 J	< 0.83	< 0.89	< 0.18	
DUP-02	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.76 J	< 0.83	< 0.89	< 0.18	
DUP-02	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.67 J	< 0.83	< 0.89	< 0.18	
DUP-02	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.64 J	< 0.83	< 0.89	< 0.18	
DUP-02	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	6	< 0.83	< 0.89	< 0.18	
DUP-02	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.1	< 0.83	< 0.89	< 0.18	
DUP-02	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.5	0.65 J	< 0.37	< 0.18	
DUP-02	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	< 0.44	< 0.28	< 0.47	8.1	0.69 J	< 0.37	< 0.18	
DUP-02	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.9	0.60 J	< 0.37	< 0.18	
DUP-02	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.5	0.71 J	< 0.37	< 0.18	
DUP-02	12/11/2013	28.61	725.11	15.6	7.23	688	-6	1.7	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.9	2	< 0.37	< 0.18	
DUP-02	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	< 0.44	0.35 J	< 0.47	25.7	4.1	< 0.37	< 0.18	
DUP-02	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	< 0.44	0.38 J	< 0.47	26.9	4.3	< 0.37	< 0.18	
DUP-02	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	0.57 J	0.37 J	< 0.50	36.2	4.5	< 0.26	< 0.18	
DUP-02	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	0.71 J	0.39 J	< 0.50	35.6	4.3	< 0.26	< 0.18	
DUP-02	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.9	1.1	< 0.26	< 0.18	
DUP-02	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.6	0.87 J	< 0.26	< 0.18	
DUP-02	12/17/2014	29.28	724.44	16.1	7.28	718	-9	2.3	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.8	1.8	< 0.26	< 0.18	
DUP-02	12/17/2014	29.28	724.44	16.1	7.28	718	-9	2.3	NM	NM	NM	< 0.50	< 0.24	< 0.50	9.5	1.8	< 0.26	< 0.18	
DUP-02	3/3/2015	30.01	723.71	15.3	7.95	735	-23	0.8	NM	NM	NM	< 0.50	< 0.24	< 0.50	13.6	2.0	< 0.26	< 0.18	
DUP-02	3/3/2015	30.01	723.71	15.3	7.95	735	-23	0.8	NM	NM	NM	< 0.50	< 0.24	< 0.50	14.7	2.0	< 0.26	< 0.18	
DUP-02	6/17/2015	29.75	723.97	16.7	7.41	697	-16	1.6	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.6	1.5	< 0.26	< 0.18	
DUP-02	6/17/2015	29.75	723.97	16.7	7.41	697	-16	1.6	NM	NM	NM	< 0.50	< 0.24	< 0.50	7.6	1.5	< 0.26	< 0.18	
MW-103	9/16/2008	25.4	728.28	14.3	6.65	864	344	2.0	NM	NM	NM	1.3	< 1.0	< 1.0	132	23.1	< 1.0	< 1.0	
MW-103	9/26/2008	NM	NM	14.2	6.93	867	243	8.7	NM	NM	NM	< 5.0	< 5.0	< 5.0	230	39.9	< 5.0	< 5.0	
MW-103	10/8/2008	25.96	727.72	14.1	6.85	984	-93	3.9	969	758	2.3	22.6	1.3	< 1.0	< 1.0	149	23.3	< 1.0	< 1.0
MW-103	11/6/2008	26.57	727.11	14.4	6.89	906	-200	1.2	2,440	1,340	0.41	12.2	1.1	< 1.0	< 1.0	120	19.7	< 1.0	< 1.0
MW-103	11/24/2008	26.86	726.82	13.4	6.88	948	-244	0.3	2,770	1,170	< 0.40	7.3	< 1.0	< 1.0	< 1.0	78.2	23.3	< 1.0	< 1.0
MW-103	12/15/2008	27.27	726.41	13.5	7.14	774	-223	0.2	3,240	512	< 0.40	4.4	< 1.0	< 1.0	< 1.0	62.0	44.8	< 1.0	< 1.0
MW-103	3/9/2010	27.40	726.28																

**Table 1**  
**Source Area Monitoring Well Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters						Inorganics				Volatile Organic Compounds						
		Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. μmhos/cm	ORP mV	Dis. Oxygen mg/L	Dis. Iron μg/L	Dis. Manganese μg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA μg/L	1,1-DCA μg/L	PCE μg/L	TCE μg/L	cis-1,2-DCE μg/L	trans-1,2-DCE μg/L
<b>Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells (1)</b>																		
MW-104	9/16/2008	25.47	728.23	14.3	6.79	842	337	2	NM	NM	NM	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	NM	14.8	6.87	868	166	8.4	NM	NM	NM	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	NM	14.5	6.80	858	176	7.8	NM	NM	NM	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	727.69	14.1	7.13	849	226	8.3	1,250	47.7	5.9	22.2	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	727.08	14.6	6.82	954	-127	3.2	<100	830	1.3	22.2	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	726.75	12.0	6.64	893	-158	0.9	644	950	<0.40	12.6	1.8	<1.0	1,280	51	<1.0	<1.0
	12/15/2008	27.34	726.36	12.6	7.03	759	-201	0.5	557	800	<0.40	10.5	1.5	<1.0	109.0	34.8	<1.0	<1.0
	3/9/2010	27.49	726.21	13.9	7.13	751	-23	0.5	196	474	NM	NM	<1.0	<1.0	61.1	20.9	<1.0	<1.0
	5/27/2010	26.91	726.79	15.0	7.00	843	-180	0.2	2,840	602	NM	6.7	5.5	<1.0	15.7	112	<1.0	<1.0
	7/1/2010	27.1	726.60	15.2	6.83	760	-6	0.1	3,570	280	NM	8.5	<1.0	<1.0	1,0	2.8	68.3	<1.0
DUP-01	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,240	292	NM	<1.0	<1.0	<1.0	8.3	31.2	<1.0	<1.0
	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,140	285	NM	<1.0	<1.0	<1.0	7.6	32.2	<1.0	<1.0
	8/30/2010	26.55	727.15	18.8	7.06	785	-163	0.2	2,720	315	NM	<1.0	<1.0	<1.0	9.4	12.4	<1.0	<1.0
	9/24/2010	26.94	726.76	16.6	7.24	758	-253	0.3	2,330	297	NM	13.9	<1.0	<1.0	11.4	5.8	<1.0	<1.0
	11/4/2010	27.67	726.03	14.8	7.33	698	-129	0.2	2,220	289	NM	<1.0	<1.0	<1.0	14.6	3.3	<1.0	<1.0
	11/29/2010	28.15	725.55	13.2	7.31	719	-119	0.6	2,010	268	NM	<1.0	<1.0	<1.0	14.0	2.0	<1.0	<1.0
	12/20/2010	28.34	725.36	14.3	7.23	703	-83	2.7	1,820	258	NM	19.3	<1.0	<1.0	15.0	3.0	<1.0	<1.0
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	<0.9	<0.75	<0.45	1.3	<0.83	<0.89	<0.18
	7/7/2011	27.94	725.78	18.1	7.30	780	-64	0.7	NM	NM	NM	<0.9	<0.75	<0.45	11.7	<0.83	<0.89	<0.18
DUP-02	9/23/2011	28.7	725.00	16.3	7.23	725	-70	1.8	NM	NM	NM	<0.9	<0.75	<0.45	8.8	<0.83	<0.89	<0.18
	12/21/2011	29.06	724.64	15.9	7.09	722	-55	2.2	NM	NM	NM	<0.9	<0.75	<0.45	3.8	<0.83	<0.89	<0.18
	3/6/2012	29.59	724.11	14.9	7.28	734	-56	0.3	NM	NM	NM	<0.9	<0.75	<0.45	2.0	<0.83	<0.89	<0.18
	6/7/2012	29.88	723.82	16.0	7.23	705	-7	0.5	NM	NM	NM	<0.9	<0.75	<0.45	2.4	<0.83	<0.89	<0.18
	9/27/2012	31.59	722.11	14.8	7.27	719	-75	0.0	NM	NM	NM	<0.9	<0.75	<0.45	0.93 J	<0.83	<0.89	<0.18
	12/20/2012	32.12	721.58	14.9	7.28	734	-50	0.0	NM	NM	NM	<0.9	<0.75	<0.45	0.80 J	<0.83	<0.89	<0.18
	3/9/2013	31.53	722.17	14.7	7.26	719	4	0.4	NM	NM	NM	<0.9	<0.75	<0.45	5.3	<0.83	<0.89	<0.18
	5/20/2013	27.61	726.09	15.1	7.18	719	23	3.5	NM	NM	NM	<0.44	0.58 J	<0.47	218	38	<0.37	<0.18
	6/27/2013	26.67	727.03	17.2	7.19	740	76	4.6	NM	NM	NM	0.59 J	<0.28	<0.47	143	7.8	<0.37	<0.18
	10/23/2013	28.03	725.67	15.2	6.88	1030	-103	0.3	NM	NM	NM	<0.44	<0.28	<0.47	<0.36	13.8	<0.37	<0.18
MW-105	11/25/2013	28.41	725.29	15.8	7.05	754	-128	0.1	NM	NM	NM	<0.44	0.41 J	<0.47	2	65.4	<0.37	<0.18
	12/11/2013	28.74	724.96	15.7	7.09	706	-112	0.2	NM	NM	NM	<0.44	0.35 J	<0.47	2.4	49.3	<0.37	<0.18
	3/11/2014	29.31	724.39	15.1	7.28	728	-119	0.2	NM	NM	NM	<0.44	<0.28	<0.47	9.6	10.3	<0.37	<0.18
	6/25/2014	28.01	725.69	16.2	7.15	826	-60	0.6	NM	NM	NM	0.72 J	2.1	<0.50	201	61.3	<0.26	<0.18
	9/24/2014	28.18	725.52	15.8	7.19	753	-69	0.04	NM	NM	NM	<0.50	<0.24	<0.50	99.2	10.8	<0.26	<0.18
	12/17/2014	29.36	724.34	15.5	7.14	765	-94	1.0	NM	NM	NM	<0.50	<0.24	<0.50	22.0	4.6	<0.26	<0.18
	3/3/2015	30.08	723.62	15.														

**Table 1**  
**Source Area Monitoring Well Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
<b>Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells<sup>(1)</sup></b>																			
MW-106	3/10/2010	27.42	725.78	13.1	7.16	752	176	7.0	<100	158	NM	NM	<1.0	<1.0	5.2	1.1	<1.0	<1.0	
	5/28/2010	28.87	726.33	13.7	7.19	720	49	2.0	<100	59.8	NM	16.4	<1.0	<1.0	5.3	2.2	<1.0	<1.0	
	7/1/2010	27.02	726.18	13.8	6.52	616	-5	2.0	582	516	NM	8.3	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	
	7/29/2010	26.85	726.35	18.8	7.30	735	-175	0.3	2,130	359	NM	NM	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	
DUP-01	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,370	234	NM	NM	<1.0	<1.0	6.4	2.6	<1.0	<1.0	
	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,250	229	NM	NM	<1.0	<1.0	6.4	2.7	<1.0	<1.0	
	9/24/2010	26.95	726.25	15.1	7.15	773	-196	0.8	2,290	190	NM	5.8	<1.0	<1.0	6.7	2.9	<1.0	<1.0	
	11/4/2010	27.64	725.56	14.5	7.26	739	-118	0.9	2,500	250	NM	NM	<1.0	<1.0	5.1	15.7	<1.0	<1.0	
	11/29/2010	28.10	725.10	13.9	7.26	766	-114	0.9	2,840	286	NM	NM	<1.0	<1.0	1.4	3.8	<1.0	<1.0	
	12/21/2010	28.34	724.86	12.9	7.22	781	-84	1.8	2,400	309	NM	20.7	1.3	<1.0	2.1	2.6	4.2	1.5	<1.0
	3/17/2011	28.10	725.10	13.8	7.23	785	-90	0.5	NM	NM	NM	<0.9	<0.75	<0.45	1.2	<0.83	<0.89	<0.18	
	7/7/2011	27.94	725.26	14.3	7.19	778	-47	0.9	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	9/26/2011	28.68	724.52	13.9	7.08	761	-6	1.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	12/21/2011	28.99	724.21	13.1	7.07	752	-48	1.6	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	3/6/2012	29.53	723.67	13.9	7.26	786	-85	NM	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	6/6/2012	29.79	723.41	15.5	7.12	777	13	0.4	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	9/27/2012	31.49	721.71	15.3	7.12	744	2	0.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	12/20/2012	32.00	721.20	13.7	7.15	766	96	0.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	
	3/7/2013	31.42	721.78	10.8	7.15	9269	124	1.0	NM	NM	NM	<0.9	<0.75	<0.45	0.97 J	<0.83	<0.89	<0.18	
	5/20/2013	27.45	725.75	16.2	7.08	674	24	0.8	NM	NM	NM	<0.44	<0.28	<0.47	0.74 J	0.86 J	<0.37	<0.18	
	8/28/2013	26.62	726.58	17.0	7.15	749	97	5.1	NM	NM	NM	<0.44	<0.28	<0.47	1.8	0.79 J	<0.37	<0.18	
	12/11/2013	28.68	724.52	13.2	7.20	694	50	6.6	NM	NM	NM	<0.44	<0.28	<0.47	0.89 J	<0.42	<0.37	<0.18	
	3/11/2014	29.29	723.91	12.4	7.23	749	-75	7.4	NM	NM	NM	<0.44	<0.28	<0.47	0.42 J	<0.42	<0.37	<0.18	
	6/24/2014	27.92	725.28	17.4	7.22	762	137	7.5	NM	NM	NM	<0.50	<0.24	<0.50	0.75 J	3	<0.26	<0.18	
	9/24/2014	28.13	725.07	16.4	7.27	779	102	7.1	NM	NM	NM	<0.50	<0.24	<0.50	0.84 J	<0.26	<0.26	<0.18	
	12/17/2014	29.27	723.93	13.4	7.21	783	96	7.9	NM	NM	NM	<0.50	<0.24	<0.50	0.63 J	0.57 J	<0.26	<0.18	
	3/5/2015	30.05	723.15	12.6	7.17	808	77	7.2	NM	NM	NM	<0.50	<0.24	<0.50	0.55 J	1.3	<0.26	<0.18	
	6/17/2015	29.63	723.57	16.6	7.25	751	102	7.4	NM	NM	NM	<0.50	<0.24	<0.50	1.1	9.2	<0.26	<0.18	
MW-107	3/11/2010	27.7	726.08	14.1	7.05	794	139	5.0	<100	NM	NM	15.3	16.4	<1.0	1.6	63.7	4.3	<1.0	<1.0
	5/27/2010	27.17	726.61	14.1	7.00	784	91	8.0	<100	31.6	NM	13.8	14.1	<1.0	1.4	53.0	3.2	<1.0	<1.0
	7/1/2010	27.35	726.43	14.5	6.70	723	0	7.7	<100	23.3	NM	12	14.9	<1.0	1.5	57.1	3.3	<1.0	<1.0
	7/29/2010	27.25	726.53	15.3	7.09	728	19	5.1	<100	22.6	NM	13.3	<1.0	1.6	53.3	2.9	<1.0	<1.0	
	8/31/2010	26.78	727.00	16.6	7.00	726	10	4.7	<100	13.2	NM	11.1	<1.0	1.4	46.2	5.4	<1.0	<1.0	
	9/24/2010	27.28	726.50	15.6	7.11	696	29	5.2	<100	10.8	NM	10.8	16.7	<1.0	1.7	51.4	8.0	<1.0	<1.0
	11/4/2010	27.97	725.81	15.0	7.13	743	48	6.8	<100	<5	NM	10.7	<1.0	1.6	51.3	4.3	<1.0	<1.0	
	11/29/2010	28.44	725.34	14.7	7.15	721	62	7.1	<100	<5	NM	11.2	<1.0	1.6	48.2	4.1	<1.0	<1.0	
	12/20/2010	28.67																	

**Table 2**  
**Long Term Monitoring Wells on Warner Property - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters						Inorganics				Volatile Organic Compounds							
		Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. μmhos/cm	ORP mV	Dis. Oxygen mg/L	Total Chrome μg/L	Dis. Iron μg/L	Dis. Manganese μg/L	Sulfate mg/L	1,1,1-TCA μg/L	1,1-DCA μg/L	PCE μg/L	TCE μg/L	cis-1,2-DCE μg/L	trans-1,2-DCE μg/L	Vinyl Chloride μg/L
<b>Long Term Groundwater Clean-up Goal - All LTMW Wells<sup>(1)</sup></b>																			
LTMW-01	3/11/2010	27.51	725.27	11.9	7.06	803	135	2.0	< 5.0	<100	NM	16.6	19.5	8.7	<2.5	<2.5	395	2.8	<2.5
	6/27/2010	27.10	725.68	13.3	6.45	724	11	3.6	< 5.0	NM	NM	NM	14.1	6.6	<4.0	< 4.0	223	<4.0	<4.0
	9/23/2010	27.10	725.68	15.1	7.04	717	44	2.0	< 0.44	NM	NM	NM	22.1	7.4	<4.0	< 4.0	199	14.6	<4.0
	12/22/2010	28.53	724.25	12.2	7.15	712	40	1.8	< 5.0	<100	5.4	13.3	19.7	9.1	<2.0	< 2.0	230	3.4	<2.0
	3/16/2011	28.25	724.53	13.3	7.18	778	148	2.3	NM	NM	NM	NM	16.7	3.6	< 0.9	< 0.96	119	2.6	< 0.36
	7/6/2011	28.05	724.73	13.6	7.22	737	30	1.9	NM	NM	NM	NM	15.6	4.4	< 0.45	< 0.48	115	< 0.89	< 0.18
	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	NM	25.6	4.4	< 0.45	< 0.48	98.4	< 0.89	< 0.18
DUP-02	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	NM	25.1	4.3	< 0.45	< 0.48	97.9	< 0.89	< 0.18
	12/21/2011	29.20	723.58	11.2	7.12	692	-41	2.7	NM	NM	NM	NM	23.7	5.1	< 0.45	< 0.48	89.2	< 0.89	< 0.18
	3/1/2012	29.67	723.11	11.5	7.22	761	98	4.0	< 2.4	NM	NM	NM	20.8	3.4	< 0.45	< 0.48	50.2	< 0.89	< 0.18
	6/7/2012	29.91	722.87	13.1	7.31	760	-50	1.0	5.5	NM	NM	NM	18	2.4	< 0.45	< 0.48	23	< 0.89	< 0.18
	9/27/2012	31.62	721.16	12.7	7.17	718	6	1.9	<2.4	NM	NM	NM	22.9	3.2	< 0.45	0.72 J	23.9	< 0.89	< 0.18
	12/21/2012	32.09	720.69	12.4	7.12	725	90	3.3	< 2.4	NM	NM	NM	15.1	2.6	< 0.45	< 0.48	13.8	< 0.89	< 0.18
	3/8/2013	31.47	721.31	11.2	7.22	707	175	3.6	< 1.4	NM	NM	NM	10.2	2.1	< 0.45	< 0.48	18.2	< 0.89	< 0.18
	5/21/2013	27.52	725.26	13.8	7.18	706	131	3.6	< 1.4	NM	NM	NM	10.4	1.2	< 0.47	< 0.43	5.1	< 0.37	< 0.18
	8/29/2013	26.84	725.94	16.0	7.19	715	96	3.6	< 1.4	NM	NM	NM	7.2	0.92 J	< 0.47	< 0.43	4.1	< 0.37	< 0.18
	12/12/2013	28.87	723.91	10.7	7.16	671	126	4.0	< 1.4	NM	NM	NM	3.4	0.42 J	< 0.47	< 0.36	2.9	< 0.37	< 0.18
	3/11/2014	29.44	723.34	10.8	7.21	737	-84	2.7	< 1.4	NM	NM	NM	9.3	0.75 J	< 0.47	< 0.36	4.1	< 0.37	< 0.18
	6/24/2014	28.05	724.73	14.4	7.15	841	31	0.2	< 1.5	NM	NM	NM	32.8	3.5	< 0.50	< 0.33	12.7	< 0.26	< 0.18
	9/23/2014	28.28	724.50	14.7	7.19	766	71	0.2	< 1.5	NM	NM	NM	22.5	2.4	< 0.50	0.40 J	9.3	< 0.26	< 0.18
	12/18/2014	29.96	722.82	11.7	7.02	731	115	2.0	< 1.5	NM	NM	NM	14.0	1.8	< 0.50	0.49 J	8.0	< 0.26	< 0.18
	3/5/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	6/18/2015	29.74	723.04	15.4	7.12	796	95	2.3	< 1.5	NM	NM	NM	10.4	2	< 0.50	< 0.33	13.7	< 0.26	< 0.18
LTMW-02	3/11/2010	27.33	725.14	12.0	7.15	766	166	7.0	< 5.0	<100	NM	16.6	<1.0	<1.0	<1.0	26.8	7.3	<1.0	<1.0
	6/27/2010	26.83	725.64	13.9	6.71	672	25	10.7	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	16.1	<1.0	<1.0	<1.0
	9/23/2010	26.83	725.64	14.7	7.21	734	99	6.1	< 0.44	NM	NM	NM	<1.0	<1.0	<1.0	10.1	2.5	<1.0	<1.0
	12/22/2010	28.27	724.20	10.9	7.25	726	16	5.6	< 0.44	<100	<5.0	15.7	<1.0	<1.0	<1.0	15.1	3.3	<1.0	<1.0
	3/17/2011	27.97	724.50	13.0	7.29	756	158	3.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	14.5	3.5	< 0.89	< 0.18
	7/6/2011	27.80	724.67	15.1	7.27	752	39	3.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.7	3.8	< 0.89	< 0.18
	9/22/2011	28.54	723.93	13.0	7.21	710	53	3.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.8	2.2	< 0.89	< 0.18
	12/21/2011	28.95	723.52	11.6	7.25	689	-25	4.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	10	1.8	< 0.89	< 0.18
	3/1/2012	29.41	723.06	10.1	7.32	723	105	4.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.3	< 0.83	< 0.89	< 0.18
	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	10	< 0.83	< 0.89	< 0.18
	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.9	< 0.83	< 0.89	< 0.18
	9/28/2012	31.37	721.10	12.0	7.19	700	183	4.1	< 2.4	NM	NM	NM	< 0.90	< 0.75	< 0.45	8.4	< 0.83	< 0.89	< 0.18
	12/21/2012	31.81	720.66	11.8	7.19	697	1												

**Table 2**  
**Long Term Monitoring Wells on Warner Property - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters						Inorganics				Volatile Organic Compounds							
		Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH	Spec. Cond. μmhos/cm	ORP mV	Dis. Oxygen mg/L	Total Chrome μg/L	Dis. Iron μg/L	Dis. Manganese μg/L	Sulfate mg/L	1,1,1-TCA μg/L	1,1-DCA μg/L	PCE μg/L	TCE μg/L	cis-1,2-DCE μg/L	trans-1,2-DCE μg/L	Vinyl Chloride μg/L
<b>Long Term Groundwater Clean-up Goal - All LTMW Wells<sup>(1)</sup></b>								100					200	200	5	5	70	100	2
LTMW-03	3/11/2010	27.16	725.03	11.8	7.19	673	141	7.0	< 5.0	<100	NM	25.2	<1.0	<1.0	<1.0	52.8	57.3	<1.0	<1.0
DUP-01	6/25/2010	26.79	725.40	13.6	8.85	769	15	7.0	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	107	76	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	151	66.2	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	153	64.9	<1.0	<1.0
	12/22/2010	28.10	724.09	9.7	7.22	694	36	4.6	< 5.0	<100	<5.0	18.0	<1.0	<1.0	<1.0	143	85.9	<1.0	<1.0
	3/17/2011	27.80	724.39	13.3	7.26	707	120	2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	109	30.1	<0.89	<0.18
	7/6/2011	27.59	724.60	16.6	7.30	740	43	5.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	77.8	86.6	<0.89	<0.18
	9/22/2011	28.36	723.83	12.9	7.21	692	38	6.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	84.8	73.9	1.1	1.3
	12/21/2011	28.80	723.39	11.3	7.17	719	-46	4.8	NM	NM	NM	NM	<0.9	1.5	<0.45	123	116	<0.89	1.4
	3/6/2012	29.21	722.98	11.3	7.25	756	-9	2.0	5.4	NM	NM	NM	<0.9	1.3	<0.45	103	102	<0.89	1.4
	6/6/2012	29.44	722.75	14.4	7.17	752	-30	3.0	5.6	NM	NM	NM	<0.9	1.1	<0.45	69.2	91.5	<0.89	<0.18
	9/28/2012	31.18	721.01	12.4	7.21	675	13	1.5	< 2.4	NM	NM	NM	<0.9	1.2	<0.45	84.5	55.3	<0.89	10
	12/20/2012	31.62	720.57	10.0	7.15	727	86	1.9	< 2.4	NM	NM	NM	<0.9	1.3	<0.45	92.8	80.7	<0.89	2.3
	3/8/2013	31.00	721.19	10.4	7.29	655	36	0.5	< 1.4	NM	NM	NM	<0.9	<0.75	<0.45	59.9	31.2	<0.89	6
	5/21/2013	27.00	725.19	13.5	7.21	689	57	0.9	2.7 J	NM	NM	NM	<0.44	<0.28	<0.47	73.6	37.9	<0.89	2.6
	8/29/2013	26.42	725.77	14.8	7.18	645	133	8.3	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	66.8	45.8	<0.89	<0.18
	9/30/2013	27.29	724.90	14.0	7.26	588	154	7.3	1.9 J	NM	NM	NM	<0.44	0.34 J	<0.47	50.4	20.6	<0.37	0.26 J
	10/23/2013	27.76	724.43	11.6	7.69	567	90	7.7	1.8 J	NM	NM	NM	<0.44	<0.28	<0.47	39.6	15.6	<0.37	<0.18
	11/25/2013	28.15	724.04	10.3	7.39	479	39	5.1	1.9 J	NM	NM	NM	<0.44	<0.28	<0.47	32.1	16	<0.37	<0.18
DUP-02	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	2.2 J	NM	NM	NM	<0.44	<0.28	<0.47	29.4	14.4	<0.37	1.6
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	27.7	12.8	<0.37	1.5
	3/13/2014	28.83	723.36	9.8	7.42	679	-88	2.1	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	5.6	26.5	<0.37	<0.18
	6/26/2014	27.60	724.59	14.9	7.41	655	-122	1.3	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	4.9	31	0.34 J	3.6
	9/25/2014	27.88	724.31	13.8	7.51	595	-120	1.6	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	6.6	15	<0.26	11.2
	12/18/2014	29.02	723.17	10.3	7.30	554	-101	1.4	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	29.7	8.6	<0.26	3.0
	3/5/2015	29.71	722.48	9.0	7.14	565	-89	1.5	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	26.5	6.4	<0.26	2.7
	6/18/2015	29.28	722.91	14.2	7.35	600	-88	0.6	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	32.6	11.6	<0.26	8.0
LTMW-03A	3/11/2010	27.55	724.97	11.9	7.07	863	153	5.0	< 5.0	<100	NM	20.1	<2.0	<2.0	<2.0	275	53.1	2.2	<2.0
	6/25/2010	27.15	725.37	13.5	6.81	926	14	7.1	< 5.0	NM	NM	NM	<2.0	<2.0	<2.0	167	30.8	<2.0	<2.0
	9/21/2010	27.03	725.49	15.8	6.73	770	90	3.8	9.2	NM	NM	NM	<2.0	<2.0	<2.0	56.6	8	<2.0	<2.0
	12/22/2010	28.48	724.04	10.1	7.28	684	14	1.3	< 5.0	<100	<5.0	13.2	<1.0	<1.0	<1.0	33.9	6.5	<1.0	<1.0
	3/17/2011	28.17	724.35	12.9	7.37	682	-31	0.1	NM	NM	NM	NM	<0.9	<0.75	<0.45	10.2	15.9	<0.89	<0.18
	7/6/2011	27.99	724.53	15.9	7.48	674	-101	0.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	1.4	55.5	<0.89	5.3
	9/22/2011	28.74	723.78	12.5	7.46	623	-101	1.8	NM	NM	NM	NM	<0.9	<0.75	<0.45	2.2	15.2	<0.89	10.2
	12/21/2011	29.10	723.42	11.4	7.40	656	-122	1.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	2.5	2.4	<0.89	4.7
	3/6/2012	29.61	722.91	11.4	7.46	727	-37	0.2	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	2.6	1.4	<0.89	4

**Table 2**  
**Long Term Monitoring Wells on Warner Property - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters						Inorganics				Volatile Organic Compounds							
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
<b>Long Term Groundwater Clean-up Goal - All LTMW Wells<sup>(1)</sup></b>									<b>100</b>				<b>200</b>	<b>200</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>	<b>2</b>

(5) *Blue bold and italic* values exceed the Long Term Cleanup Criteria

**Table 3**  
**Long Term Monitoring Wells on Hononegah Road - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters								Inorganics					Volatile Organic Compounds							
		Water Depth Feet	Well Elev. Ft. MSL	Water Elev. °C	Sample Temp. Std. Units	pH umhos/cm	Spec. Cond. mV	ORP mg/L	Dis. Oxygen mg/L	Total Chrome µg/L	Dis. Iron µg/L	Manganese µg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L	
										100					200	200	5	5	70	100	2	
<b>Long Term Groundwater Clean-up Goal - All LTMW Wells<sup>(1)</sup></b>																						
<b>Non-potable Intermediate Groundwater Cleanup Criteria<sup>(2)</sup></b>																						
LTMW-04	3/12/2010	30.14	748.50	718.36	11.7	7.35	995	86	4.0	11.9	216	NM <sup>(3)</sup>	NM	20.8	<1.0 <sup>(4)</sup>	<1.0	<1.0	3.0	1.2	<1.0	<1.0	
	6/24/2010	29.60		718.90	13.6	6.84	866	12	6.9	7.6	NM	NM	NM	NM	<1.0	<1.0	<1.0	3.7	1.6	<1.0	<1.0	
	9/22/2010	29.80		718.70	13.4	7.31	806	13	5.8	10.4	NM	NM	NM	NM	1.1	<1.0	<1.0	3.5	1.0	<1.0	<1.0	
	12/22/2010	30.75		717.75	10.4	7.25	821	-6	4.4	42.1	164	139	NM	21.6	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	
	3/15/2011	30.23		718.27	11.5	7.32	873	62	6.8	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.5	1.4	<0.89	<0.18		
	7/5/2011	30.45		718.05	13.0	7.37	832	27	7.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.7	2.5	<0.89	<0.18		
	9/21/2011	31.30		717.20	13.3	7.24	802	16	8.1	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.4	2.0	<0.89	<0.18		
DUP-02	12/22/2011	31.25		717.25	10.8	7.26	804	-29	6.3	NM	NM	NM	NM	1.0	<0.75	<0.45	4.5	4.8	<0.89	<0.18		
	3/1/2012	31.72		716.78	10.9	7.34	871	70	5.0	6.8	NM	NM	NM	NM	<0.9	<0.75	<0.45	4.6	4.6	<0.89	<0.18	
	6/6/2012	31.73		716.77	12.5	7.3	866	26	5.0	5.6	NM	NM	NM	NM	<0.9	<0.75	<0.45	5.7 <sup>(5)</sup>	5.2	<0.89	<0.18	
	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	<2.4	NM	NM	NM	NM	1.0 J	<0.75	<0.45	7.1	8	<0.89	<0.18	
	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	<2.4	NM	NM	NM	NM	1.0	<0.75	<0.45	7.1	8.1	<0.89	<0.18	
	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	<2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	8.2	7.8	<0.89	<0.18	
	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	<2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	7.9	7.7	<0.89	<0.18	
DUP-01	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.8 J	NM	NM	NM	NM	<0.9	<0.75	<0.45	8	7.1	<0.89	<0.18	
	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.0 J	NM	NM	NM	NM	1.1	<0.28	<0.47	11.5	9.5	<0.37	<0.18	
	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	NM	1.1	<0.28	<0.47	11.7	9.4	<0.37	<0.18	
	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	NM	1.0	<0.28	<0.47	8.6	5.6	<0.37	<0.18	
	8/27/2013	29.94		718.56	15.6	7.29	831	116	6.2	<1.4	NM	NM	NM	NM	1.1	<0.28	<0.47	8.7	5.7	<0.37	<0.18	
	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	1.8 J	NM	NM	NM	NM	1.2	<0.28	<0.47	7.9	6.3	<0.37	<0.18	
	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	2.9 J	NM	NM	NM	NM	1.0	<0.28	<0.47	7.2	5.8	<0.37	<0.18	
DUP-01	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	5.9	NM	NM	NM	NM	0.81 J	<0.28	<0.47	7.5	5.5	<0.37	<0.18	
	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	6.1	NM	NM	NM	NM	0.77 J	<0.28	<0.47	7.6	5.6	<0.37	<0.18	
	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	2.3 J	NM	NM	NM	NM	0.86 J	<0.24	<0.50	9.6	8.7	<0.26	<0.18	
	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	<1.5	NM	NM	NM	NM	0.84 J	<0.24	<0.50	8.8	8.9	<0.26	<0.18	
	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	<1.5	NM	NM	NM	NM	0.75 J	<0.24	<0.50	9.4	8.6	<0.26	<0.18	
	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	<1.5	NM	NM	NM	NM	0.65 J	<0.24	<0.50	9.3	8.5	<0.26	<0.18	
	12/16/2014	31.65		716.85	11.2	7.28	841	115	6.4	<1.5	NM	NM	NM	NM	0.69 J	<0.24	<0.50	8.8	8.1	<0.26	<0.18	
DUP-01	12/16/2014	31.65		716.85	11.2	7.28	841	115	6.4	2.7 J	NM	NM	NM	NM	0.74 J	<0.24	<0.50	9.1	8.1	<0.26	<0.18	
	3/4/2015	32.04		716.46	8.6	6.84	864	76	5.4	2.3 J	NM	NM	NM	NM	0.87 J	<0.24	<0.50	10.6	8.4	<0.26	<0.18	
	3/4/2015	32.04		716.46	8.6	6.84</																

**Table 3**  
**Long Term Monitoring Wells on Hononegah Road - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters								Inorganics					Volatile Organic Compounds							
		Water Depth Feet	Well Elev. Ft. MSL	Water Elev. °C	Sample Temp. Std. Units	pH μmhos/cm	Spec. Cond. mV	ORP mg/L	Dis. Oxygen mg/L	Total Chrome μg/L	Dis. Iron μg/L	Manganese μg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA μg/L	1,1-DCA μg/L	PCE μg/L	TCE μg/L	cis-1,2-DCE μg/L	trans-1,2-DCE μg/L	Vinyl Chloride μg/L	
<b>Long Term Groundwater Clean-up Goal - All LTMW Wells <sup>(1)</sup></b>																						
<b>Non-potable Intermediate Groundwater Cleanup Criteria <sup>(2)</sup></b>																						
LTMW-06	3/12/2010	31.80	749.95	718.15	11.7	7.23	949	94	7.0	< 0.32	<100	NM	NM	17.4	<1.0	<1.0	<1.0	40.4	14.0	<1.0	<1.0	
	6/25/2010	31.28		718.67	14.1	6.75	1030	20	7.8	< 5.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	35.4	13.0	<1.0	<1.0	
	9/22/2010	31.50		718.45	13.5	7.19	857	41	5.7	7.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	33.2	9.5	<1.0	<1.0	
	12/22/2010	32.40		717.55	10.4	7.27	864	71	5.7	11	<100	7.7	NM	NM	17.1	<1.0	<1.0	<1.0	28.1	9.9	<1.0	<1.0
	3/16/2011	31.88		718.07	12.0	7.27	1180	151	8.4	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	32	7.3	< 0.89	< 0.18	
	7/5/2011	32.12		717.83	13.6	7.32	1121	70	9.2	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	20.1	5.6	< 0.89	< 0.18	
	9/21/2011	32.96		716.99	12.8	7.21	939	74	9.9	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	26.8	7.5	< 0.89	< 0.18	
	12/22/2011	32.90		717.05	9.9	7.14	1449	12	7.9	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	28	9.3	< 0.89	< 0.18	
	3/1/2012	33.34		716.61	11.0	7.77	937	89	5.0	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	22	11.5	< 0.89	< 0.18	
	6/6/2012	33.34		716.61	13.2	7.33	902	59	4.0	6.6	NM	NM	NM	NM	4.3	< 0.75	< 0.45	29.3	15.0	< 0.89	< 0.18	
	9/27/2012	35.20		714.75	13.7	7.24	919	185	7.7	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	40.4	26.7	< 0.89	< 0.18	
	12/19/2012	35.13		714.82	11.2	7.26	1305	176	8.7	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	40.5	17.6	< 0.89	< 0.18	
	3/7/2013	34.13		715.82	9.5	7.32	8772	191	7.6	1.7 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	34.4	19.6	< 0.89	< 0.18	
	5/20/2013	30.40		719.55	14.2	7.31	914	100	3.3	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	32	16.9	< 0.37	< 0.18	
	8/27/2013	31.63		718.32	15.8	7.30	900	196	7.1	2.5 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	38.6	16.9	< 0.37	< 0.18	
	12/10/2013	32.95		717.00	9.6	7.25	1442	131	8.1	1.9 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	41.9	20.4	< 0.37	< 0.18	
	3/11/2014	33.21		716.74	10.0	7.33	941	-98	7.7	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	28.3	13.7	< 0.37	< 0.18	
	6/24/2014	31.72		718.23	16.9	7.30	977	129	7.2	2.4 J	NM	NM	NM	NM	< 0.50	0.34 J	< 0.50	32.9	24.7	< 0.26	< 0.18	
	9/23/2014	32.54		717.41	14.4	7.39	915	38	6.8	1.6 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	33.5	25.2	< 0.26	< 0.18	
	12/16/2014	33.28		716.67	10.8	7.29	903	88	7.1	2.2 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	30.5	18.1	< 0.26	< 0.18	
	3/4/2015	33.67		716.28	10.0	6.94	1244	13	7.0	2.4 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	27.2	12	< 0.26	< 0.18	
	6/17/2015	32.97		716.98	12.8	7.29	965	106	6.9	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	23.5	10.9	< 0.26	< 0.18	
LTMW-07	3/12/2010	31.97	750.07	718.10	11.8	7.26	819	-19	5.0	18.8	<100	NM	NM	19.9	<1.0	<1.0	<1.0	14.1	9.1	<1.0	<1.0	
DUP-02	3/12/2010	31.97		718.10	11.8	7.26	819	-19	5.0	20.0	<100	NM	NM	19.9	<1.0	<1.0	<1.0	14.4	8.9	<1.0	<1.0	
DUP-01	6/25/2010	31.47		718.60	12.6	6.84	915	17	8.0	42.9	NM	NM	NM	NM	<1.0	<1.0	<1.0	15.5	9.7	<1.0	<1.0	
	9/22/2010	31.72		718.35	13.6	7.23	802	58	4.8	54.8	NM	NM	NM	NM	<1.0	<1.0	<1.0	19.3	10.6	<1.0	<1.0	
	12/22/2010	32.57		717.50	10.3	7.3	804	68	5.3	35.7	<100	6.7	NM	NM	20	<1.0	<1.0	<1.0	14.4	10.7	<1.0	<1.0
	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	12.0	7.8	< 0.89	< 0.18	
	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	11.9	7.6	< 0.89	< 0.18	
	7/6/2011	32.36		717.71	12.7	7.42	848	39	7.5	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	11.1	8	< 0.89	< 0.18	
	9/21/2011	33.12		716.95	12.2	7.24	848	80	8.2	NM	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	11.5	5.8	< 0.89	< 0.18	
	12/22/2011	33.04		717.03	9.6	7.26	835	17	6.2	NM	NM											

**Table 4**  
**Long Term Monitoring Wells on Edgemere Terrace - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

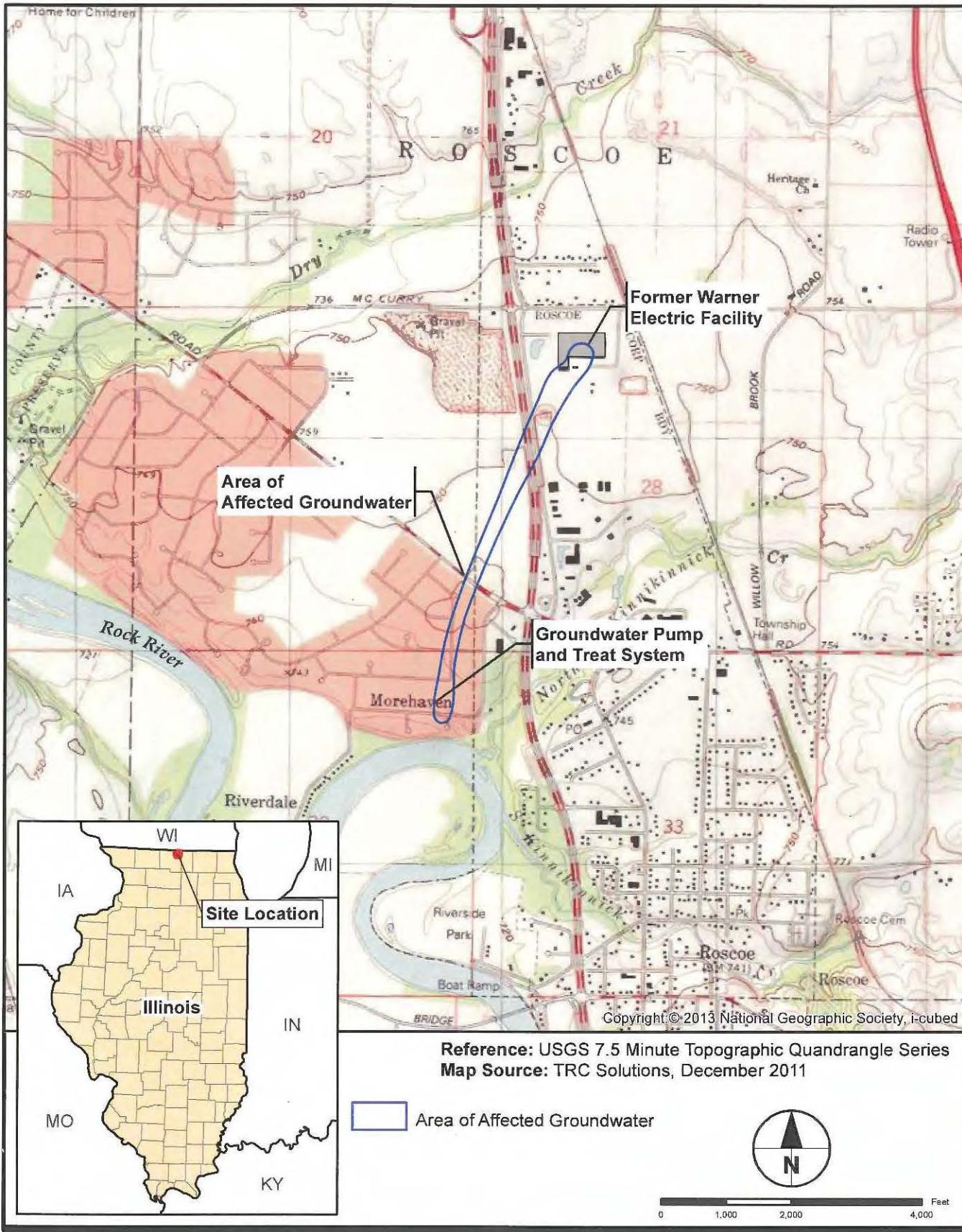
Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Long Term Clean-up Criteria - All LTMW Wells <sup>(1)</sup>							100				200	200	5	5	70	100	2
		Surface Water Discharge Intermediate Clean-up Criteria <sup>(2)</sup>							42				76	47	45	25	620	970	120
LTMW-08	3/8/2010	17.73	711.43	10.4	7.17	718	25	6.4	5.2	<100 <sup>(4)</sup>	160	NM	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
DUP-01	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM <sup>(3)</sup>	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
DUP-01	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM <sup>(3)</sup>	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
LTMW-08	9/21/2010	17.42	711.74	14.6	7.21	781	31	5.4	34.7	NM	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-01	12/22/2010	17.04	712.12	10.3	7.31	775	49	7.3	67.5	<100	14.1	21.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-01	3/15/2011	16.34	712.82	10.8	7.34	828	99	7.0	NM	NM	NM	<0.9	<0.75	<0.45	1.1	<0.83	<0.89	<0.18	
DUP-01	6/30/2011	17.66	711.50	13.2	7.27	803	49	8.7	NM	NM	NM	<0.9	<0.75	<0.45	1.2	<0.83	<0.89	<0.18	
DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	<0.9	<0.75	<0.45	1.0	<0.83	<0.89	<0.18	
DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	<0.9	<0.75	<0.45	1.1	<0.83	<0.89	<0.18	
DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18	
DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18	
DUP-01	2/28/2012	18.43	710.73	9.6	7.19	861	100	9.4	12.4	NM	NM	NM	<0.9	<0.75	<0.45	1.3	<0.83	<0.89	<0.18
DUP-01	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	8.5	NM	NM	NM	<0.9	<0.75	<0.45	1.2	<0.83	<0.89	<0.18
DUP-01	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	7.6	NM	NM	NM	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18
LTMW-08	9/26/2012	20.25	708.91	NA	7.27	825	183	5.5	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	2	1.1	<0.89	<0.18
DUP-01	12/19/2012	19.61	709.55	10.8	7.28	832	194	6.5	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	2.4	1.5	<0.89	<0.18
DUP-01	3/6/2013	18.52	710.64	7.8	7.32	807	166	5.8	2.2 J	NM	NM	NM	<0.9	<0.75	<0.45	3.1	2.1	<0.89	<0.18
DUP-01	5/20/2013	15.02	714.14	13.5	7.30	764	-248	0.2	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	1	<0.42	<0.37	<0.18
DUP-01	8/26/2013	18.08	711.08	16.9	7.27	802	114	6.4	2.8 J	NM	NM	NM	0.56 J	<0.28	<0.47	1.5	<0.42	<0.37	<0.18
DUP-01	12/9/2013	18.43	710.73	9.4	7.26	837	82	6.3	2.4 J	NM	NM	NM	0.61 J	<0.28	<0.44	2.1	0.96 J	<0.37	<0.18
DUP-01	3/10/2014	18.75	710.41	10.3	7.39	835	-154	5.9	2.5 J	NM	NM	NM	0.51 J	<0.28	<0.47	1.9	0.78 J	<0.37	<0.18
DUP-01	6/23/2014	16.15	713.01	13.8	7.30	906	108	6.6	2.3 J	NM	NM	NM	0.54 J	<0.24	<0.50	1.7	0.52 J	<0.26	<0.18
DUP-01	9/22/2014	18.41	710.75	14.0	7.35	863	60	6.5	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	1.6	0.61 J	<0.26	<0.18
DUP-01	12/15/2014	18.48	710.68	10.8	7.22	873	58	6.5	2.5 J	NM	NM	NM	<0.50	<0.24	<0.50	2	0.92 J	<0.26	<0.18
DUP-01	3/2/2015	18.81	710.35	9.3	6.64	880	-94	6.2	9.4	NM	NM	NM	0.57 J	<0.24	<0.50	2	0.93 J	<0.26	<0.18
DUP-01	6/16/2015	16.86	712.30	15.1	7.28	906	7	5.9	< 1.5	NM	NM	NM	0.67 J	<0.24	<0.50	2.1	1.1	<0.26	<0.18
LTMW-09	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	<100	225	NM	1.1	<1.0	<1.0	9.3 <sup>(5)</sup>	6.5	<1.0	<1.0
DUP-01	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	NM	NM	NM	1.1	<1.0	<1.0	9.6 <sup>(5)</sup>	6.4	<1.0	<1.0
DUP-01	6/24/2010	16.42	712.89	13.4	6.74	1080	18	3.4	< 5.0	NM	NM	NM	1.1	<1.0	<1.0	7.7	3.4	<1.0	<1.0
DUP-01	9/21/2010	17.86	711.45	14.5	7.20	890	85	4.6	7.8	NM	NM	NM	1.1	<1.0	<1.0	7.1	2.4	<1.0	<1.0
DUP-01	12/22/2010	17.45	711.86	10.7	7.30	891	71	5.9	14.1	<100	<5	18.3	<1.0	<1.0	<1.0	5.4	2.8	<1.0	<1.0
DUP-01	3/15/2011	16.75	712.56	11.4	7.33	944	177	7.5	NM	NM	NM	<0.9	<0.75	<0.45	6.8	2.9	<0.89	<0.18	
DUP-01	7/1/2011	18.14	711.17	14.3	7.32	980	78	8.6	NM	NM	NM	1.0	<0.75	<0.45	6.4	1.9	<0.89	<0.18	
DUP-01	9/21/2011	19.23	710.08	12.7	7.25	881	72	10.3	NM	NM	NM	<0.9	<0.75	<0.45	6.4	1.6	<0.89	<0.18	
DUP-01	12/20/2011	18.09	711.22	11.1	7.19	902	134	7.5	NM	NM	NM	<0.9	<0.75	<0.45	6.1	2.5	<0.89	<0.18	
DUP-01	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	5.3	NM	NM	NM	<0.9	<0.75	<0.45	5.8	2.2	<0.89	<0.18
DUP-01	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	5.7	NM	NM	NM	<0.9	<0.75	<0.45	5.8	2.1	<0.89	<0.18
DUP-01	6/5/2012	18.88	710.43	14.2	7.31	970	102	4.0	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	5.4	2.4	<0.89	<0.18
DUP-01	9/26/2012	20.65	708.66	15.1	7.26	1016	149	6.8	< 2.4	NM	NM	NM	<0.90	<0.75	<0.45	5.6	2.4	<0.89	<0.18
DUP-01	12/19/2012	19.99	709.32	11.8	7.29	1034	187	8.4	< 2.4	NM	NM	NM	1.1	<0.75	<0.45	7.3	3	<0.89	<0.18
DUP-01	3/6/2013	18.99	710.32	9.3	7.30	1016	170	8.0	2.4 J	NM	NM	NM	0.92 J	<0.75	<0.45	9.4	4.4	<0.89	<0.18
DUP-01	5/20/2013	15.60	713.71	14.4	7.30	1019	186	7.2	2.0 J	NM	NM	NM	0.77 J	<0.28	<0.47	7.7	3.3	<0.37	<0.18
DUP-01	8/26/2013	18.64	710.67	15.0	7.29	969	151	7.3	2.0 J	NM	NM	NM	0.86 J	<0.28	<0.47	5.8	1.7	<0.37	<0.18
DUP-01	12/9/2013	18.92	710.39	10.2	7.26														

**Table 4**  
**Long Term Monitoring Wells on Edgemere Terrace - Data Summary**  
**Former Warner Facility**  
**Roscoe, Illinois**

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds								
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride		
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
<b>Long Term Clean-up Criteria - All LTMW Wells <sup>(1)</sup></b>							<b>42</b>							<b>200</b>	<b>200</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>	<b>2</b>	
<b>Surface Water Discharge Intermediate Clean-up Criteria <sup>(2)</sup></b>							<b>78</b>							<b>47</b>	<b>45</b>	<b>25</b>	<b>620</b>	<b>970</b>	<b>120</b>		
LTMW-10	3/9/2010	14.80	711.28	11.2	7.24	1170	92	4.0	< 5.0	<100	27.1	NM	<1.0	<1.0	<1.0	<b>21.9</b>	12.4	<1.0	<1.0		
	6/24/2010	12.99	713.09	13.7	6.78	1150	16	8.7	< 5.0	NM	NM	1.4	<1.0	<1.0	<b>17.6</b>	8.5	<1.0	<1.0			
	9/21/2010	14.40	711.68	14.9	7.17	927	66	5.2	16.5	NM	NM	1.5	<1.0	<1.0	<b>15.2</b>	6.1	<1.0	<1.0			
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	27.8	<100	5.5	19.4	<1.0	<1.0	<b>20.8</b>	12	<1.0	<1.0			
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	25.2	<100	<5	19.4	<1.0	<1.0	<b>19.0</b>	9.6	<1.0	<1.0			
	3/15/2011	13.31	712.77	11.0	7.28	1175	176	7.3	NM	NM	NM	<0.9	<0.75	<0.45	<b>21.4</b>	10	<0.89	<0.18			
	7/1/2011	14.65	711.43	14.5	7.23	1029	77	8.8	NM	NM	NM	1.3	<0.75	<0.45	<b>16.4</b>	4.4	<0.89	<0.18			
	9/21/2011	15.73	710.35	13.4	7.20	1033	74	8.8	NM	NM	NM	<0.9	<0.75	<0.45	<b>23.4</b>	9.8	<0.89	<0.18			
	12/20/2011	14.65	711.43	10.7	7.19	943	144	8.2	NM	NM	NM	<0.9	<0.75	<0.45	<b>21.7</b>	13.4	<0.89	<0.18			
	2/29/2012	15.37	710.71	11.2	7.27	1002	134	6.0	26.2	NM	NM	NM	<0.9	<0.75	<0.45	<b>20.4</b>	11.1	<0.89	<0.18		
	6/5/2012	15.40	710.68	13.9	7.21	999	89	5.0	8.8	NM	NM	NM	<0.9	<0.75	<0.45	<b>19.4</b>	10.5	<0.89	<0.18		
	9/26/2012	17.14	708.94	13.2	7.25	986	138	7.01	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	<b>9.9</b>	7.4	<0.89	<0.18		
	12/19/2012	16.48	709.60	11.1	7.30	1003	175	8.5	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	<b>7.4</b>	5.1	<0.89	<0.18		
	3/16/2013	15.50	710.58	8.4	7.32	946	158	7.5	3.0 J	NM	NM	NM	<0.9	<0.75	<0.45	<b>6</b>	2.7	<0.89	<0.18		
	5/20/2013	12.22	713.86	14.7	7.26	969	176	7.8	5.9	NM	NM	NM	<0.44	<0.28	<0.47	<b>14.9</b>	7.7	<0.37	<0.18		
	8/26/2013	15.15	710.93	15.4	7.27	1010	144	7.5	2.3 J	NM	NM	NM	<0.44	<0.28	<0.47	<b>20.6</b>	9	<0.37	<0.18		
	12/9/2013	15.40	710.68	9.3	7.28	947	97	7.3	1.9 J	NM	NM	NM	<0.44	<0.28	<0.47	<b>10</b>	4.6	<0.37	<0.18		
	3/10/2014	15.72	710.36	11.7	7.41	939	-144	6.9	1.8 J	NM	NM	NM	<0.44	<0.28	<0.47	<b>7.1</b>	3.1	<0.37	<0.18		
	6/23/2014	13.11	712.97	16.0	7.28	1027	101	7.1	2.2 J	NM	NM	NM	<0.50	<0.24	<0.50	<b>14.6</b>	8.6	<0.26	<0.18		
	9/22/2014	15.43	710.65	13.0	7.36	970	70	7.6	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	<b>15.3</b>	9.4	<0.26	<0.18		
	12/15/2014	15.42	710.66	9.8	7.19	954	95	7.7	2.2 J	NM	NM	NM	<0.50	<0.24	<0.50	<b>9.8</b>	4.1	<0.26	<0.18		
	3/2/2015	15.76	710.32	6.8	7.95	969	-82	7.0	1.9 J	NM	NM	NM	<0.50	<0.24	<0.50	<b>8.8</b>	3.7	<0.26	<0.18		
	6/16/2015	13.62	712.46	14.6	7.28	986	35	6.8	4.0 J	NM	NM	NM	<0.50	<0.24	<0.50	<b>6.9</b>	2.4	<0.26	<0.18		
LTMW-11	3/9/2010	20.80	711.47	10.9	7.28	894	181	4.0	7.1	<100	35.7	NM	<1.0	<1.0	<1.0	<b>12.6</b>	9.6	<1.0	<1.0		
	6/23/2010	19.35	712.92	14.4	6.85	1170	12	7.4	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	<b>18</b>	11.3	<1.0	<1.0		
	9/21/2010	20.72	711.55	13.5	7.19	943	93	5.2	5.7	NM	NM	NM	<1.0	<1.0	<1.0	<b>20.4</b>	9.2	<1.0	<1.0		
	12/22/2010	20.30	711.97	10.0	7.29	836	65	5.4	9.7	<100	<5	19.2	<1.0	<1.0	<1.0	<b>15.5</b>	10.2	<1.0	<1.0		
	3/15/2011	19.62	712.65	11.3	7.31	885	177	5.9	NM	NM	NM	<0.9	<0.75	<0.45	<b>15.8</b>	8.9	<0.89	<0.18			
	7/5/2011	21.10	711.17	13.0	7.33	933	49	7.3	NM	NM	NM	<0.9	<0.75	<0.45	<b>19.1</b>	11.1	<0.89	<0.18			
	9/21/2011	21.98	710.29	13.0	7.23	808	76	7.2	NM	NM	NM	<0.9	<0.75	<0.45	<b>16</b>	7.7	<0.89	<0.18			
	12/20/2011	20.94	711.33	10.0	7.25	831	144	7.1	NM	NM	NM	<0.9	<0.75	<0.45	<b>9.7</b>	6.7	<0.89	<0.18			
	2/29/2012	21.62	710.65	11.7	7.27	917	130	7.0	7.3	NM	NM	NM	<0.9	<0.75	<0.45	<b>8.9</b>	4.9	<0.89	<0.18		
	6/6/2012	21.70	710.57	12.4	7.33</td																

## FIGURES

## Figures

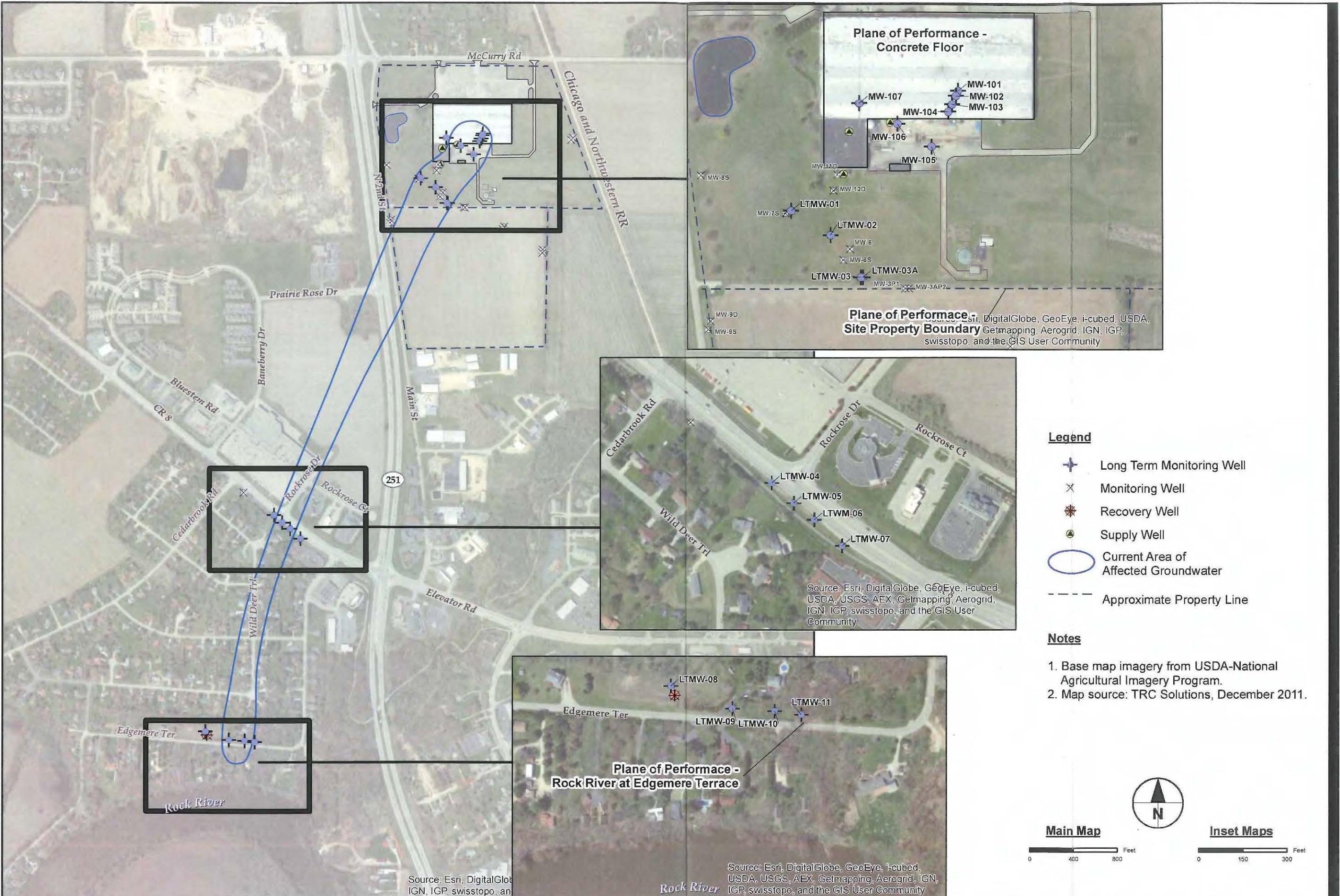


**Dana Corporation  
Former Warner Electric Division  
Roscoe, Illinois  
Project No.: 60272149 Date: 2014**

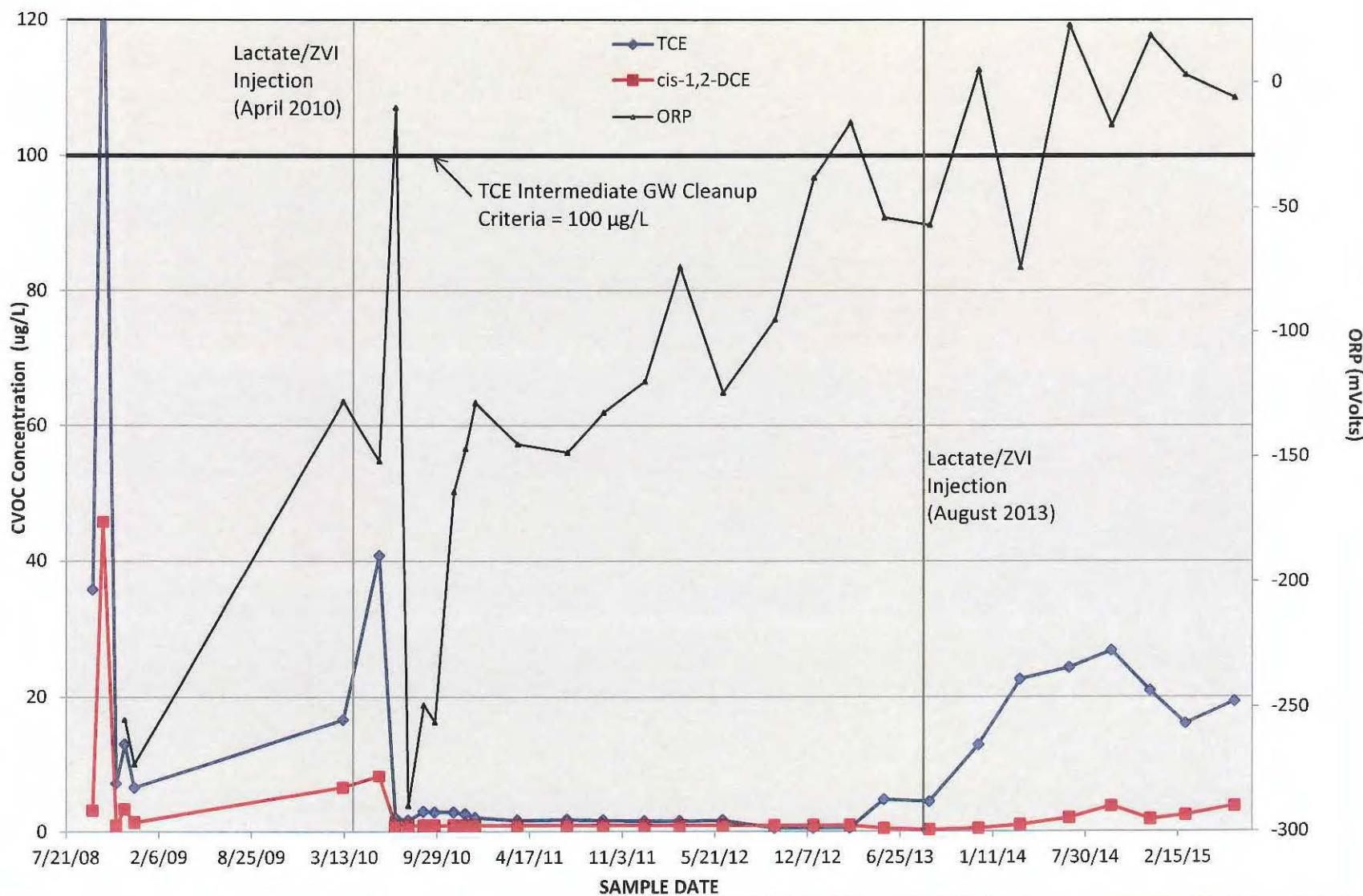
## **Site Location Map**

AECOM

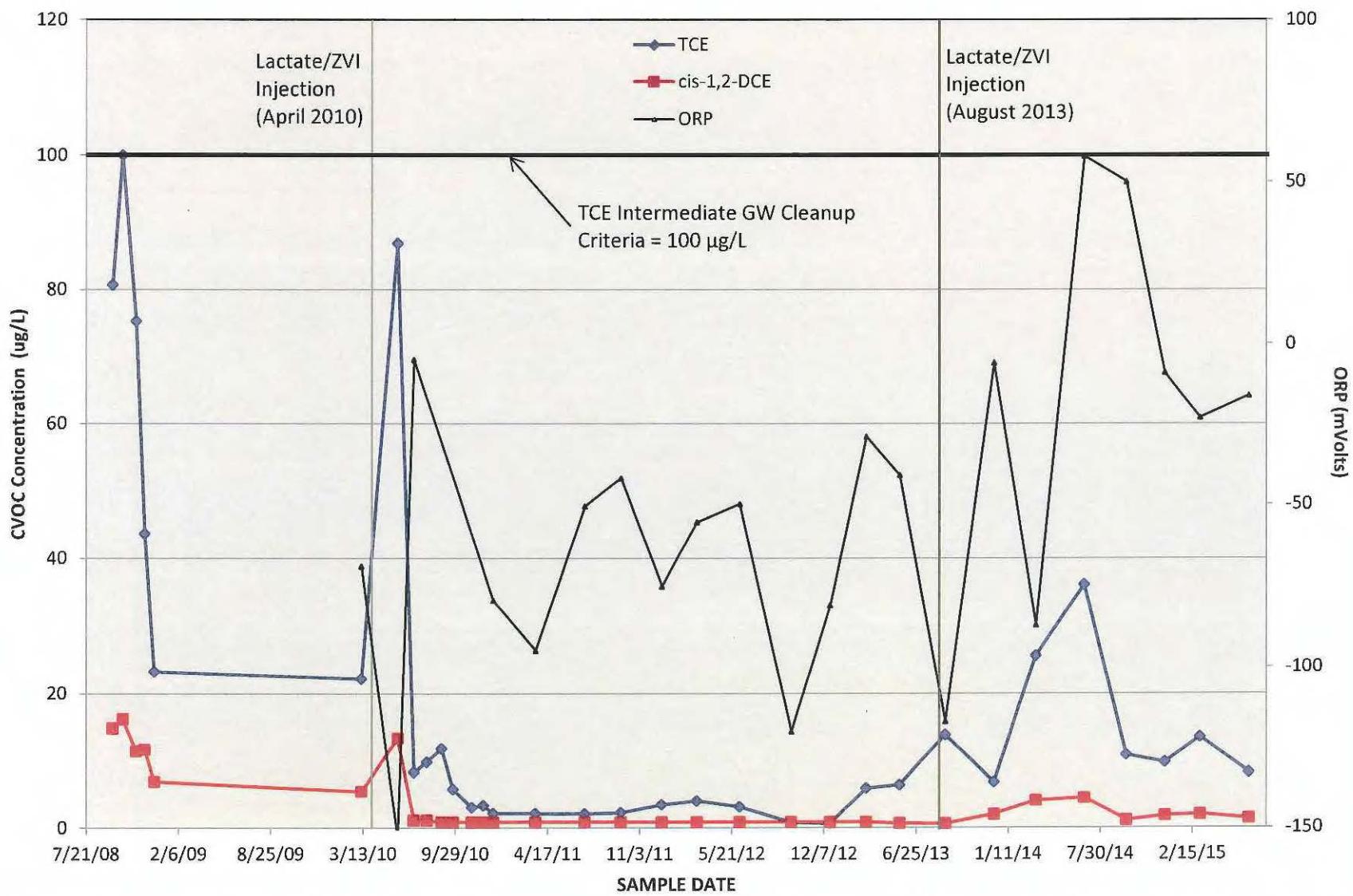
**Figure: 1**



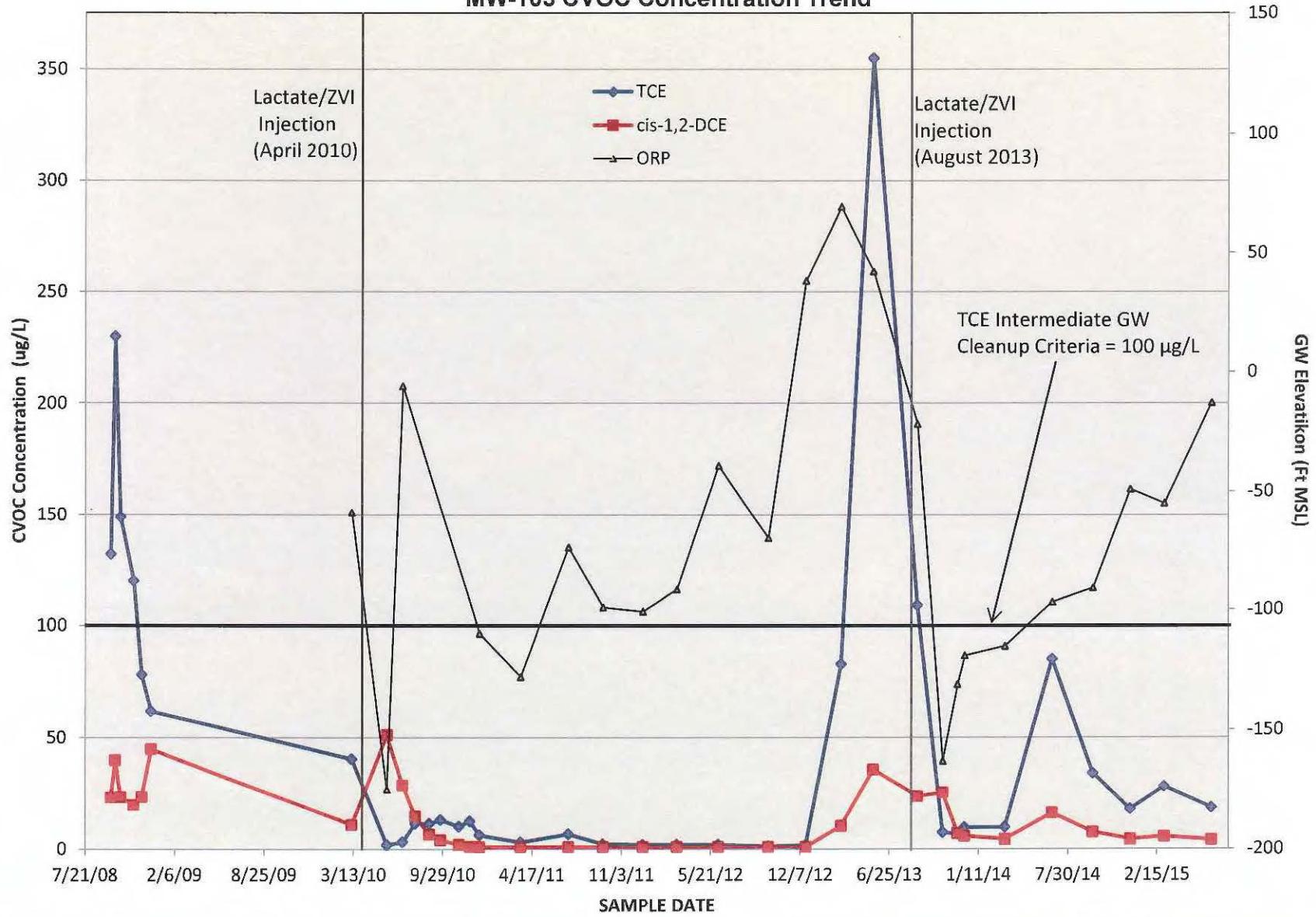
**Figure 3**  
**MW-101 CVOC Concentration Trend**



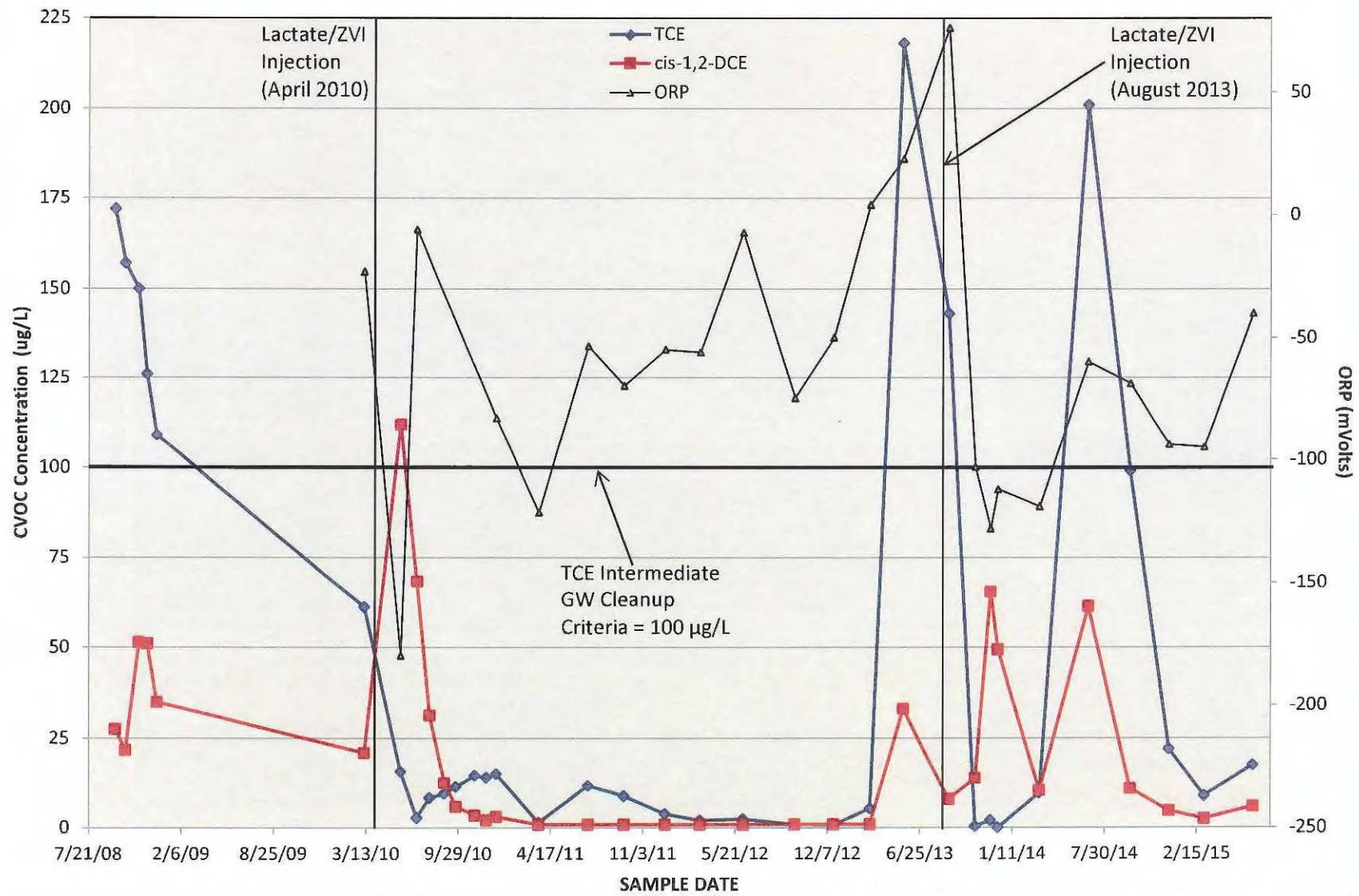
**Figure 4**  
**MW-102 CVOC Concentration Trend**



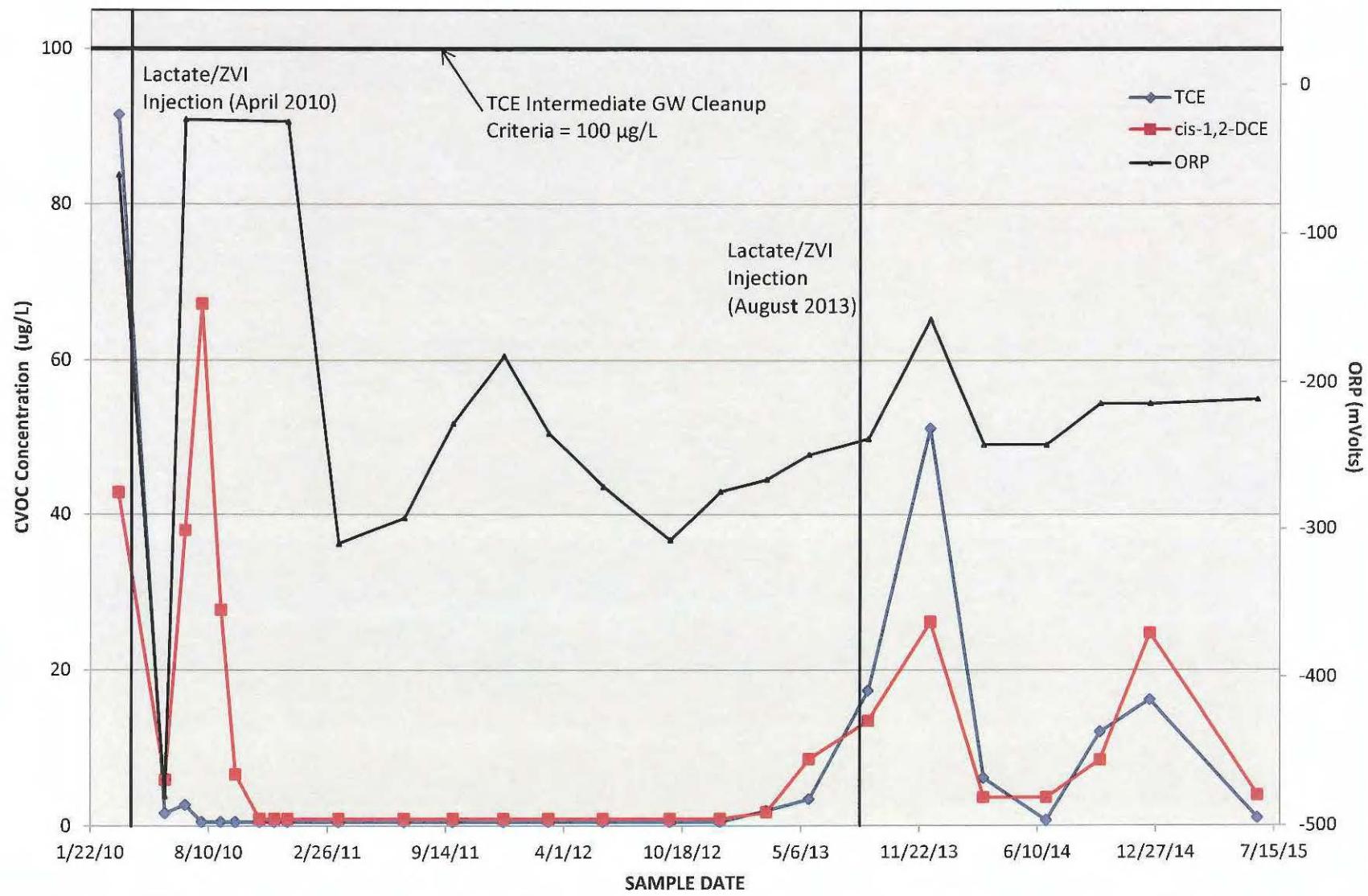
**Figure 5**  
**MW-103 CVOC Concentration Trend**



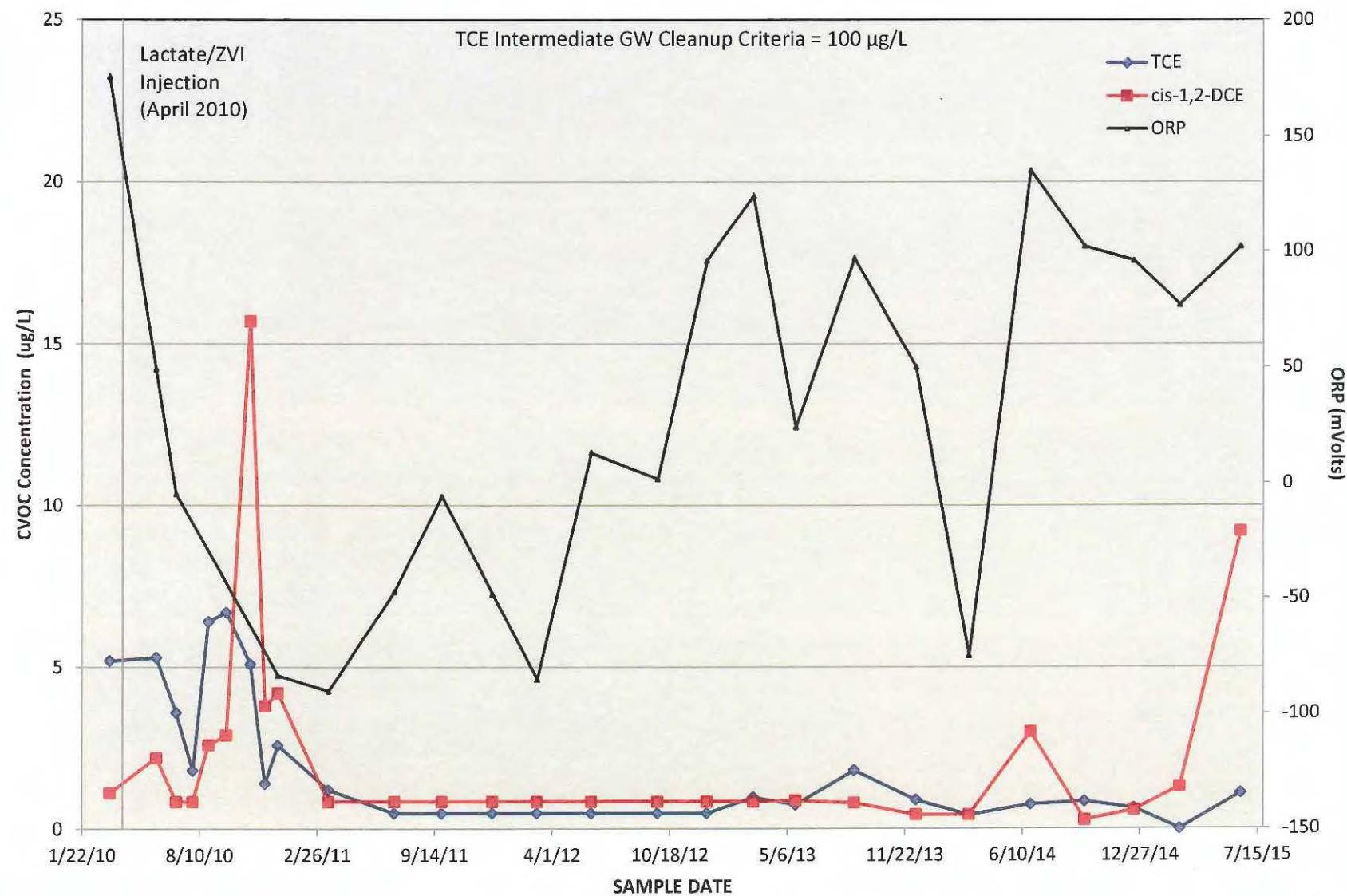
**Figure 6**  
**MW-104 CVOC Concentration Trend**



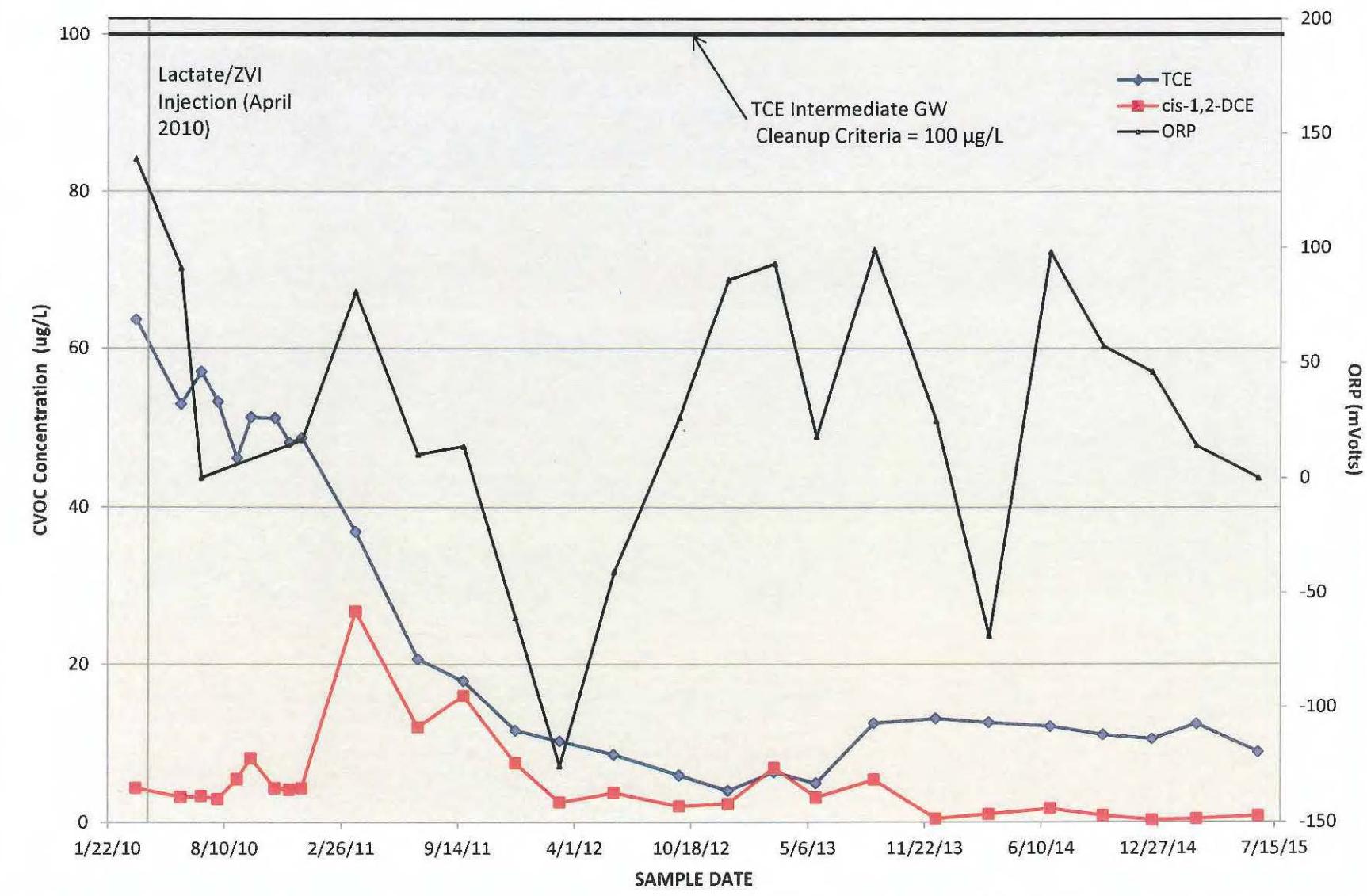
**Figure 7**  
**MW-105 CVOC Concentration Trend**



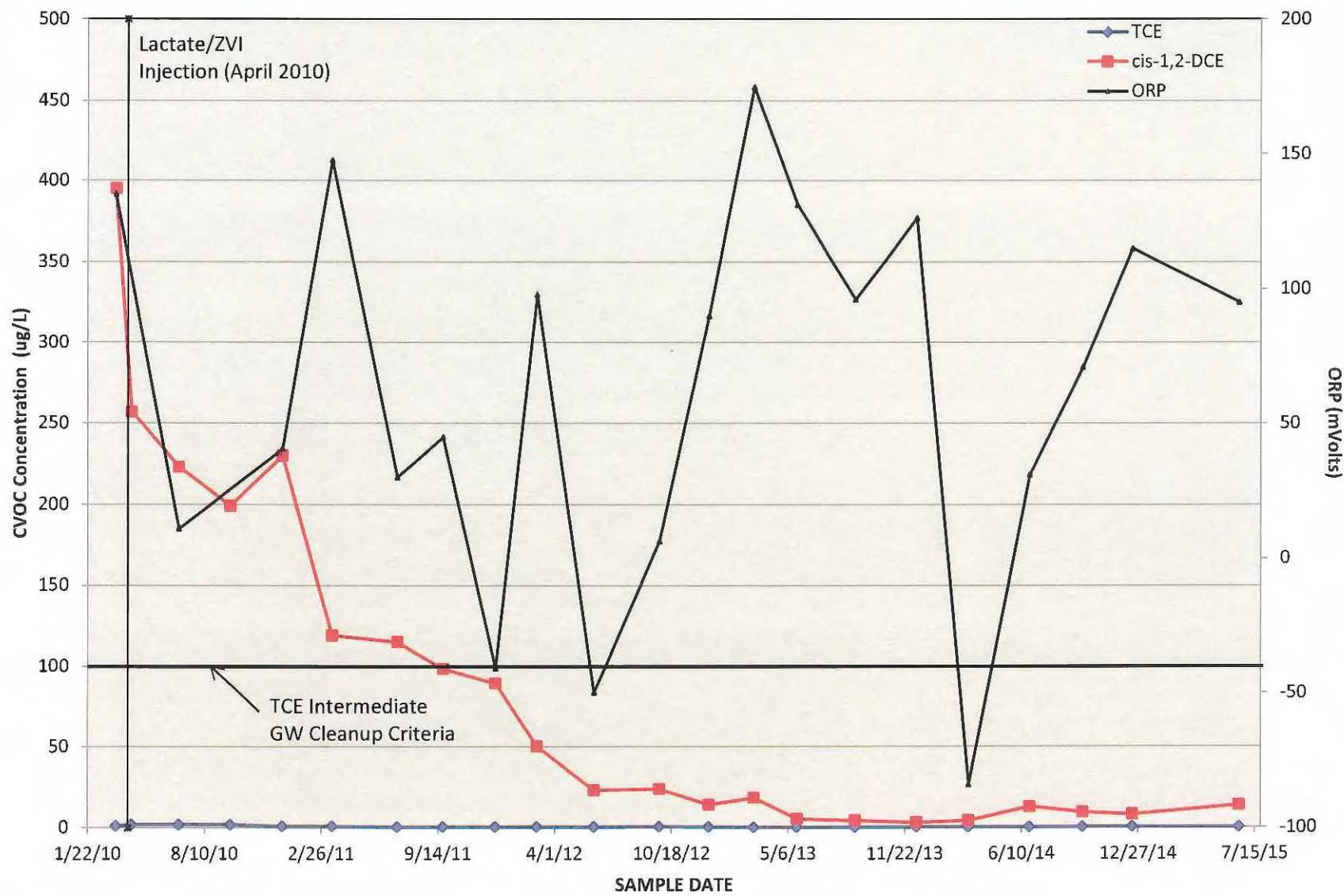
**Figure 8**  
**MW-106 CVOC Concentration Trend**



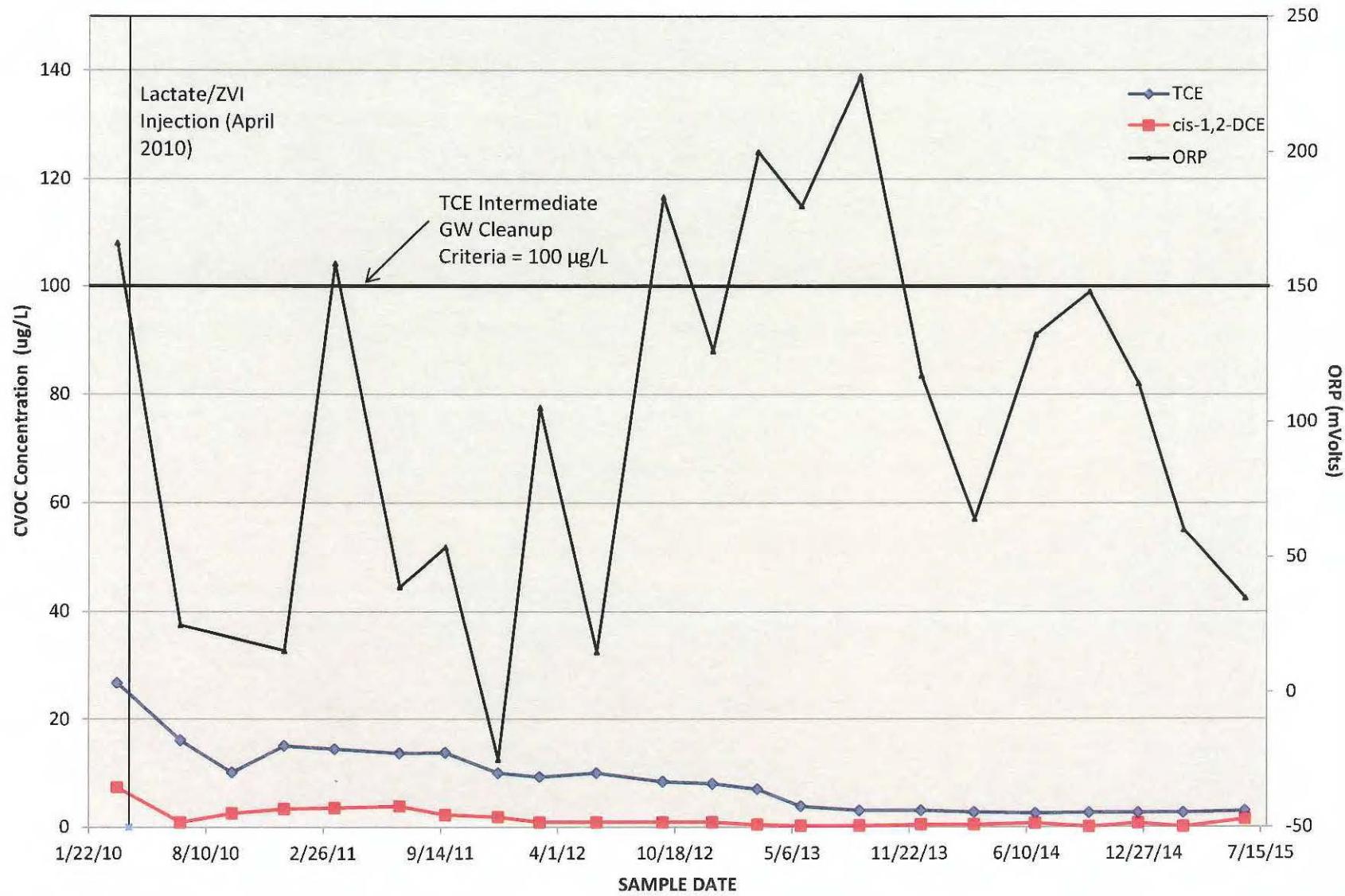
**Figure 9**  
**MW-107 CVOC Concentration**



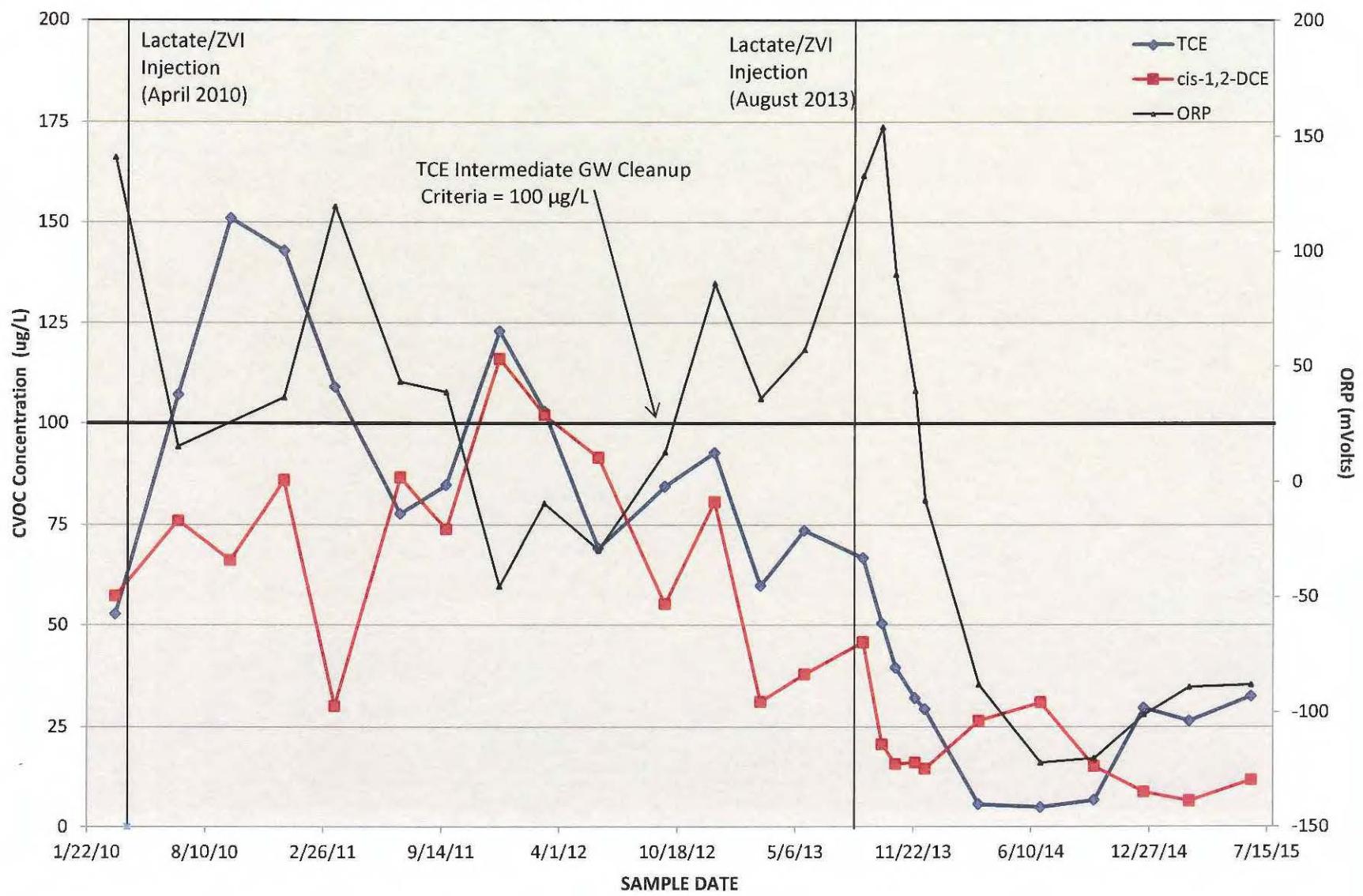
**Figure 10**  
**LTMW-01 CVOC Concentration Trend**



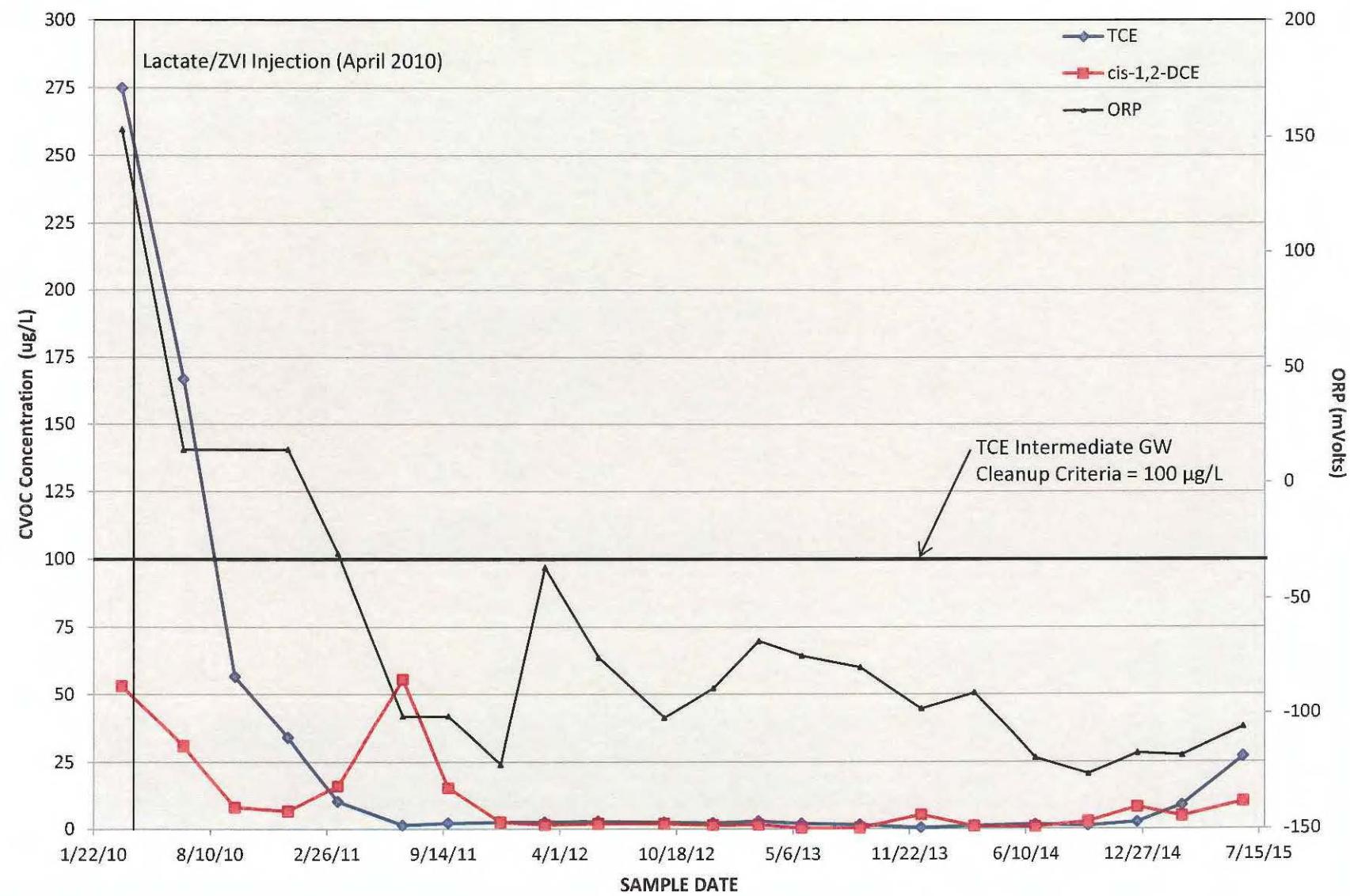
**Figure 11**  
**LTMW-02 CVOC Concentration Trend**



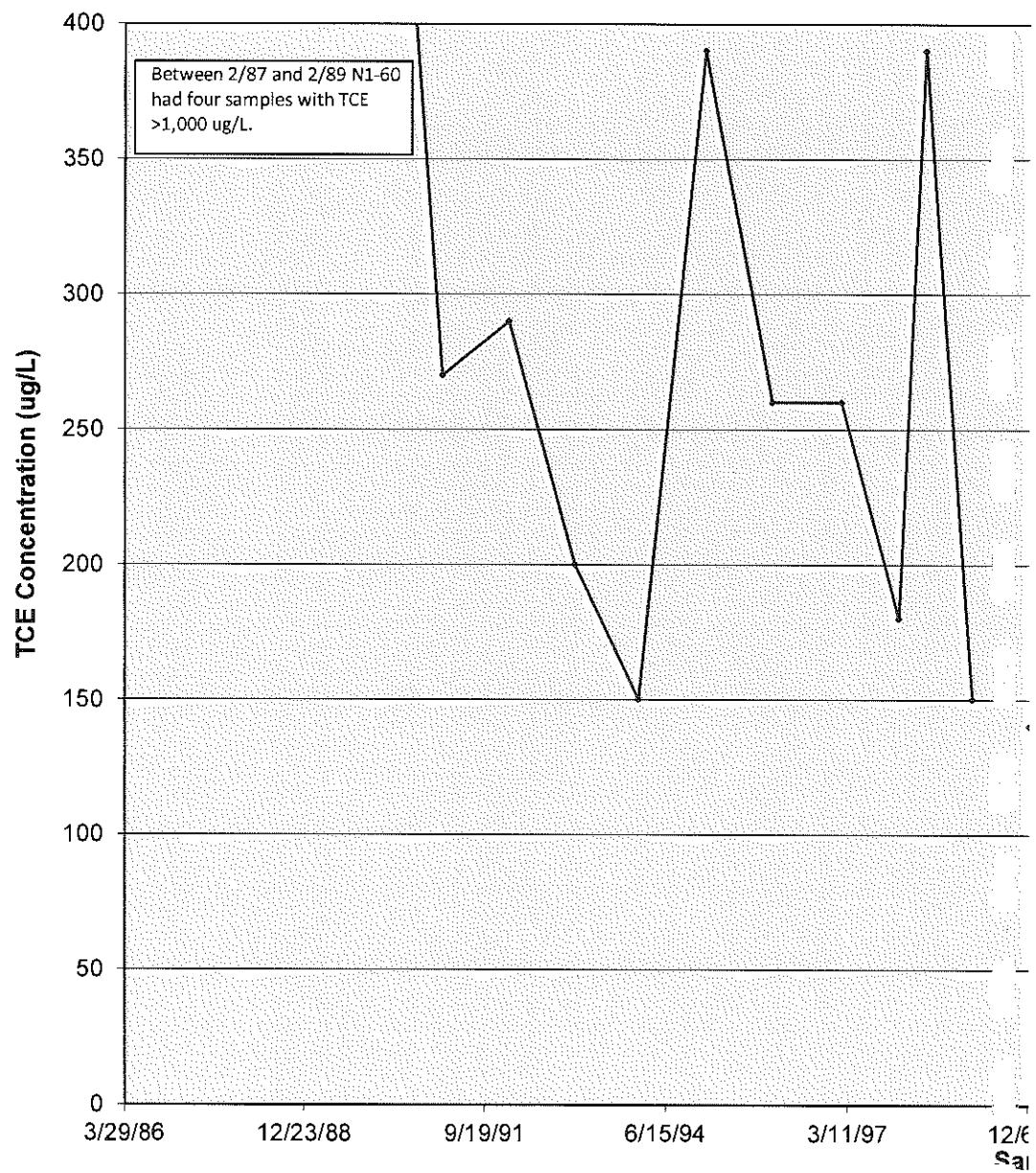
**Figure 12**  
**LTMW-03 CVOC Concentration Trend**



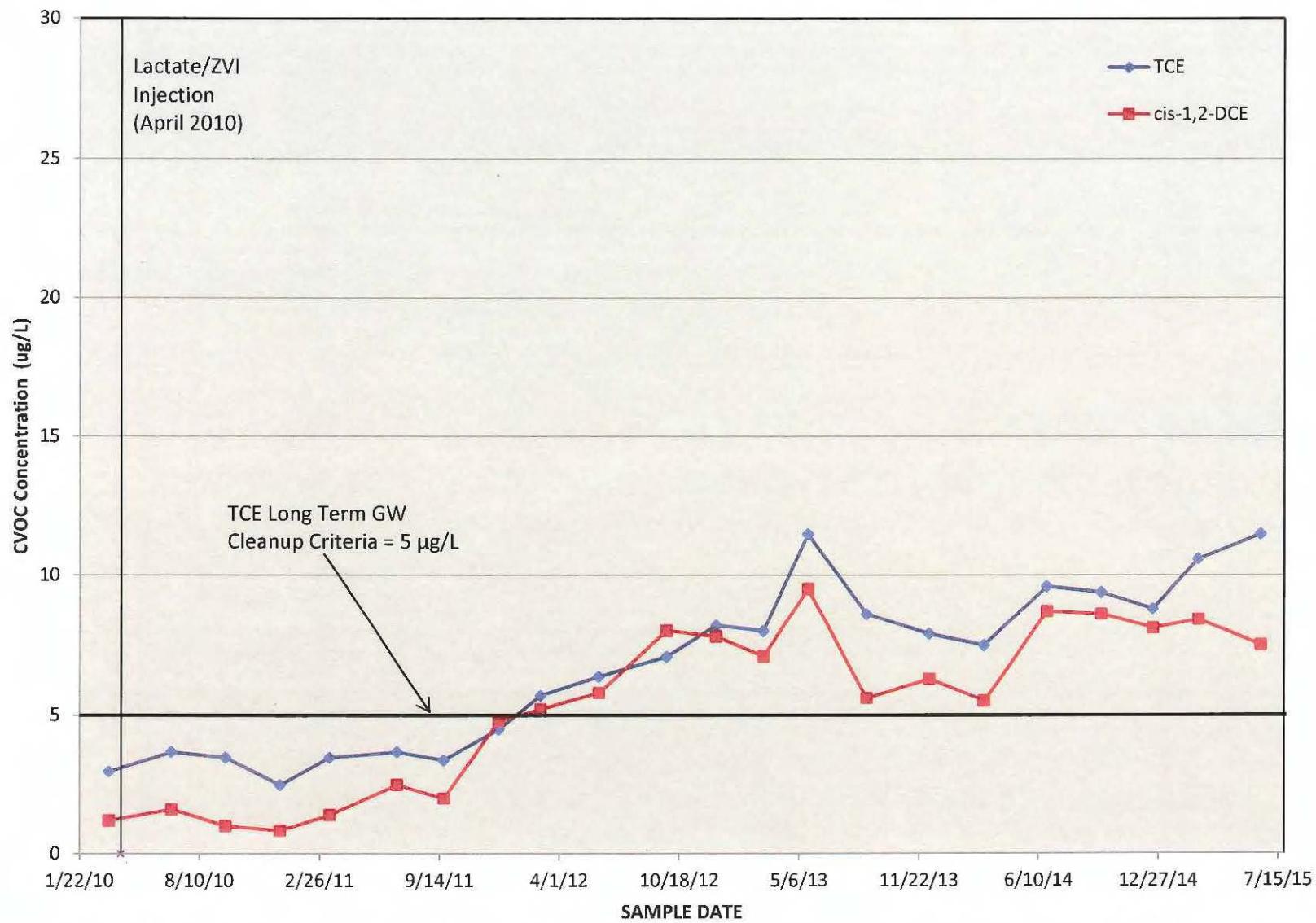
**Figure 13**  
**LTMW-03A Concentration Trend**



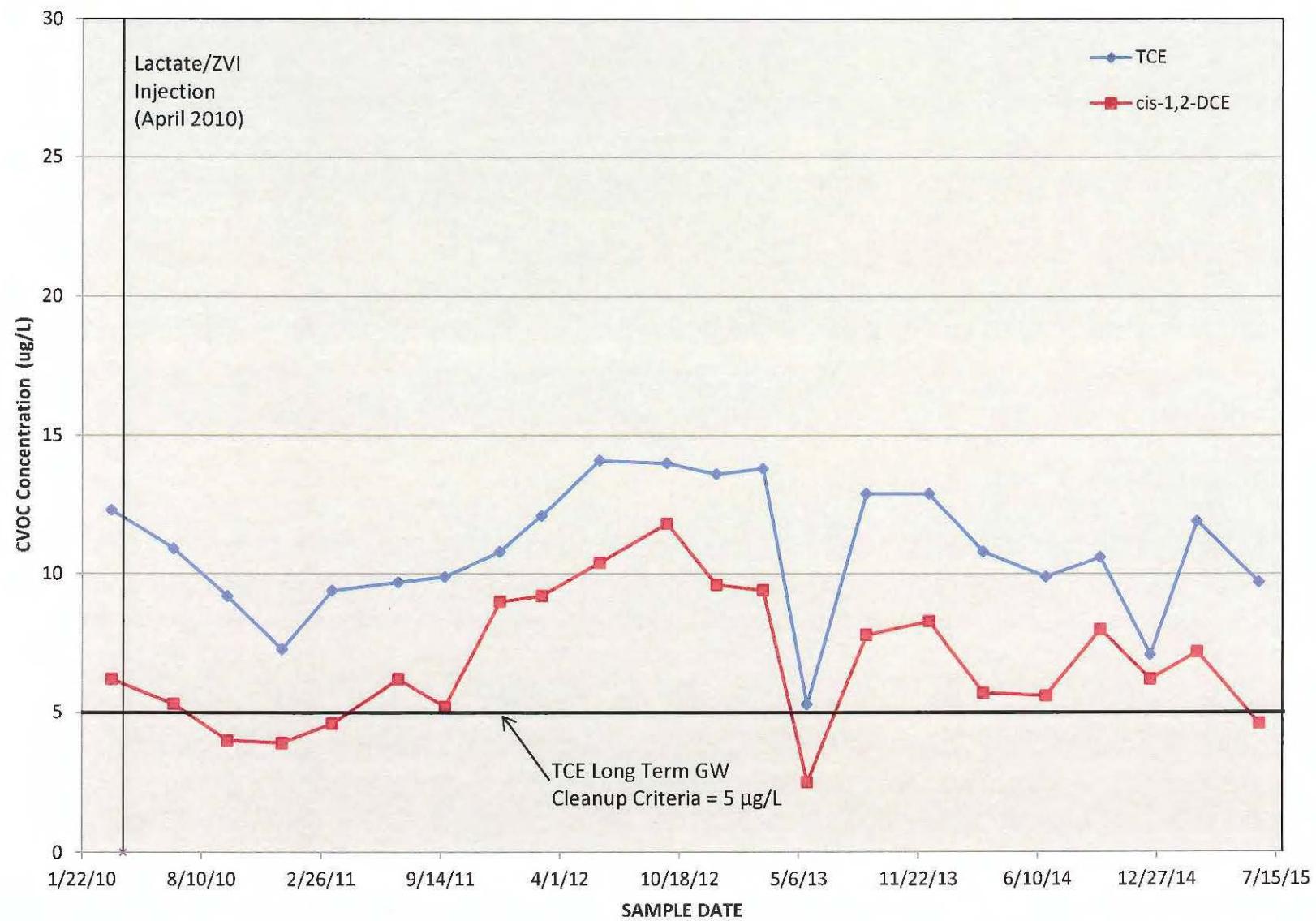
**Figure 14**  
**Long Term TCE Concentration Trend**



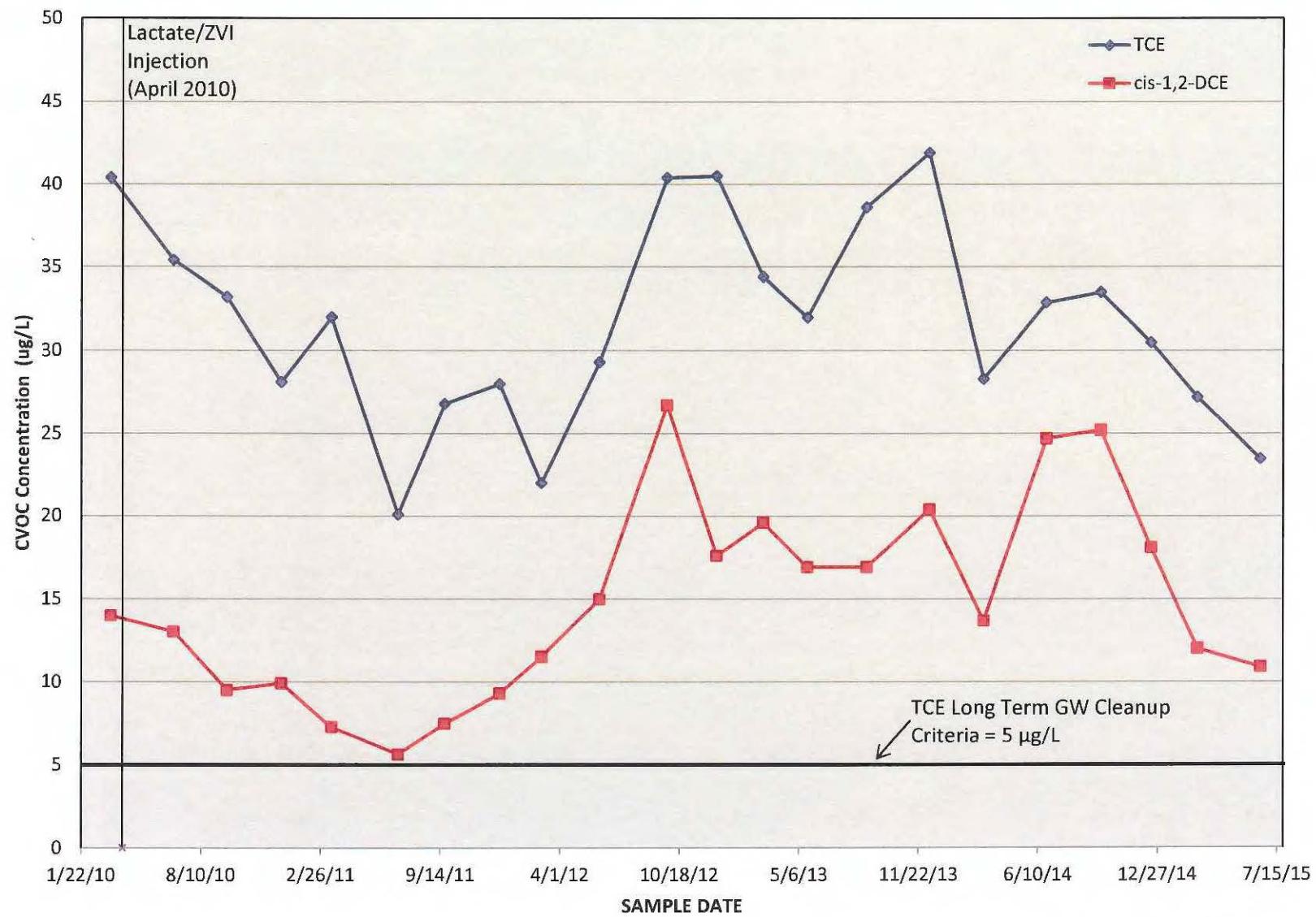
**Figure 15**  
**LTMW-04 CVOC Concentration Trend**



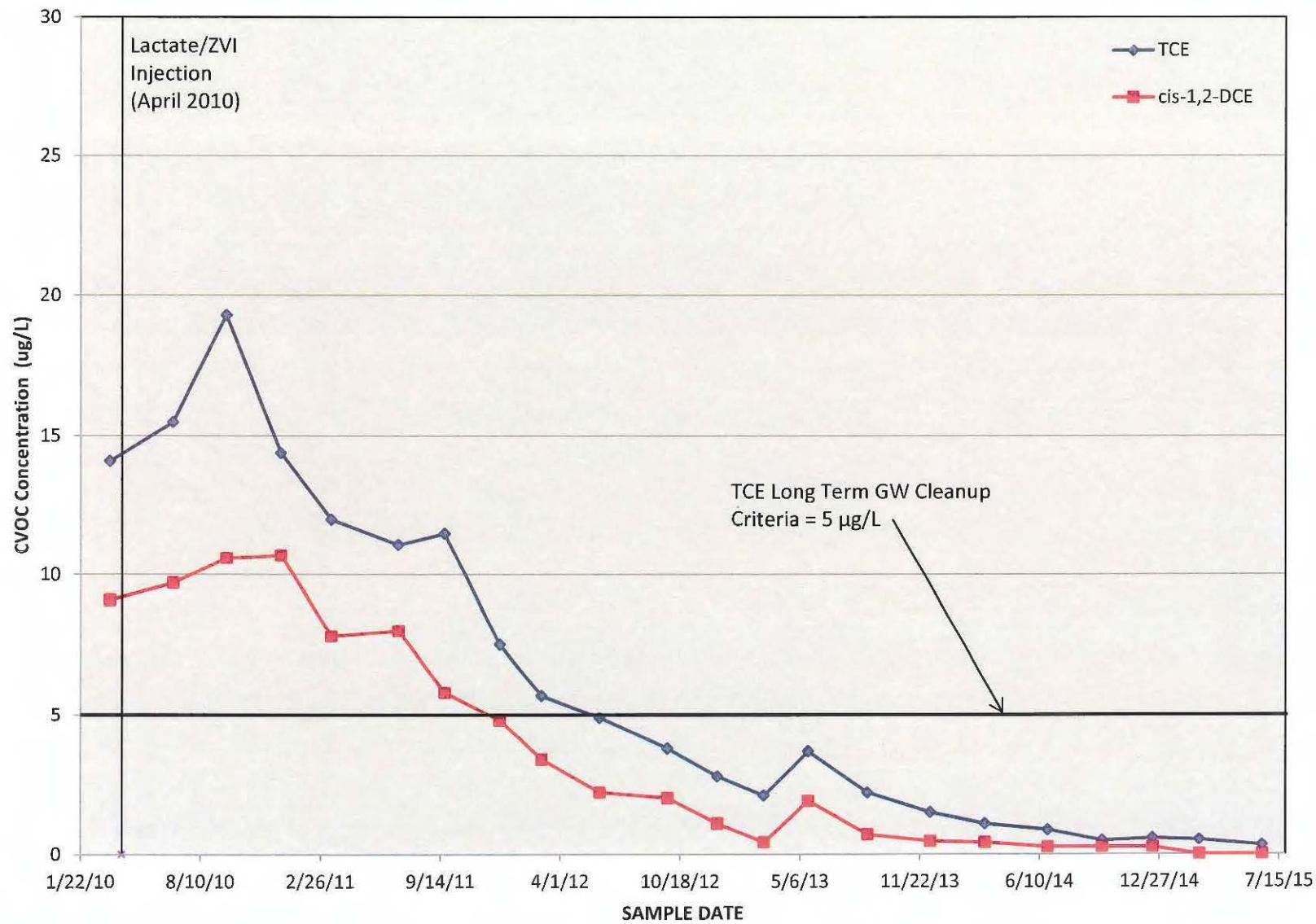
**Figure 16**  
**LTMW-05 CVOC Concentration Trend**



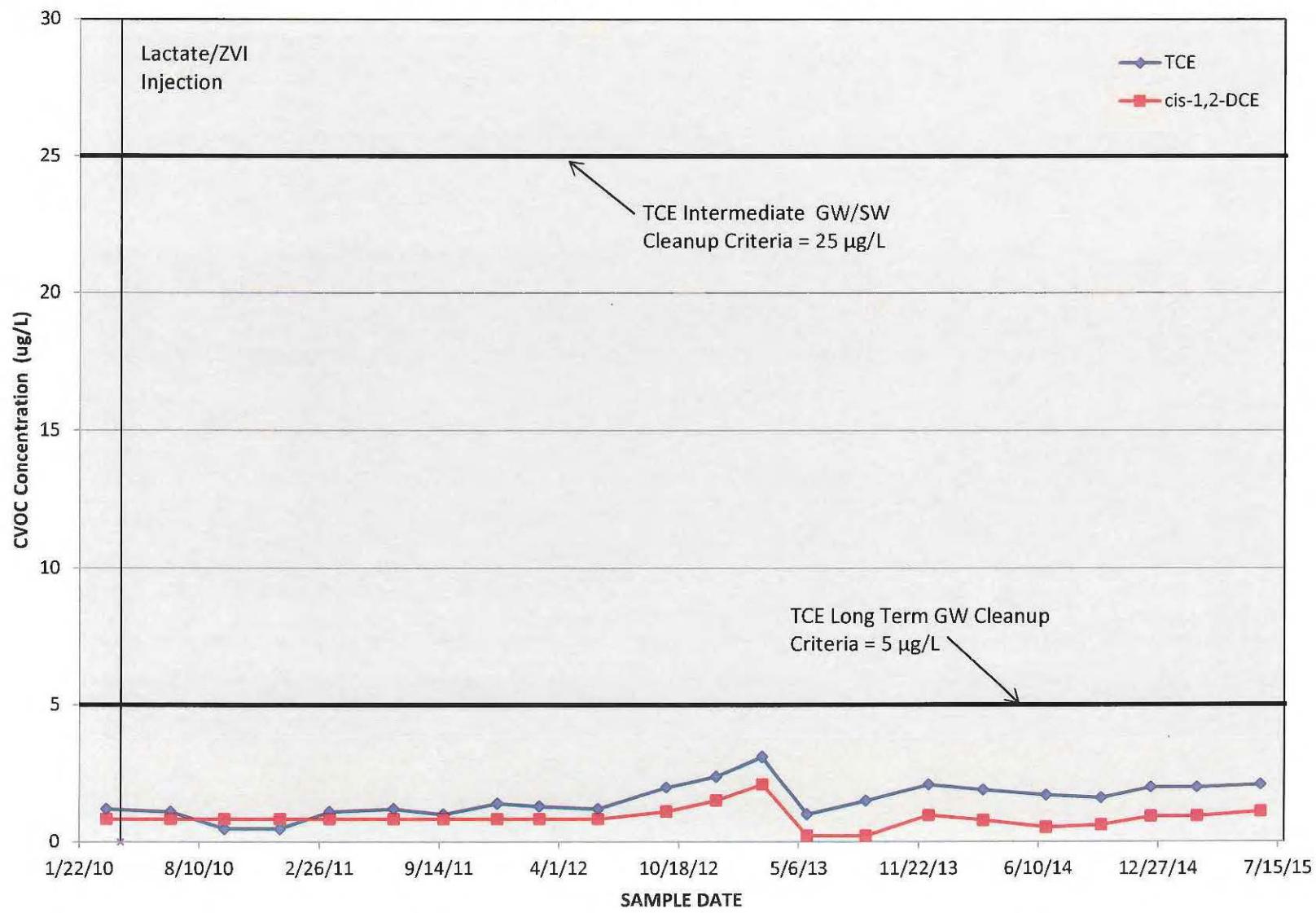
**Figure 17**  
**LTMW-06 CVOC Concentration Trend**



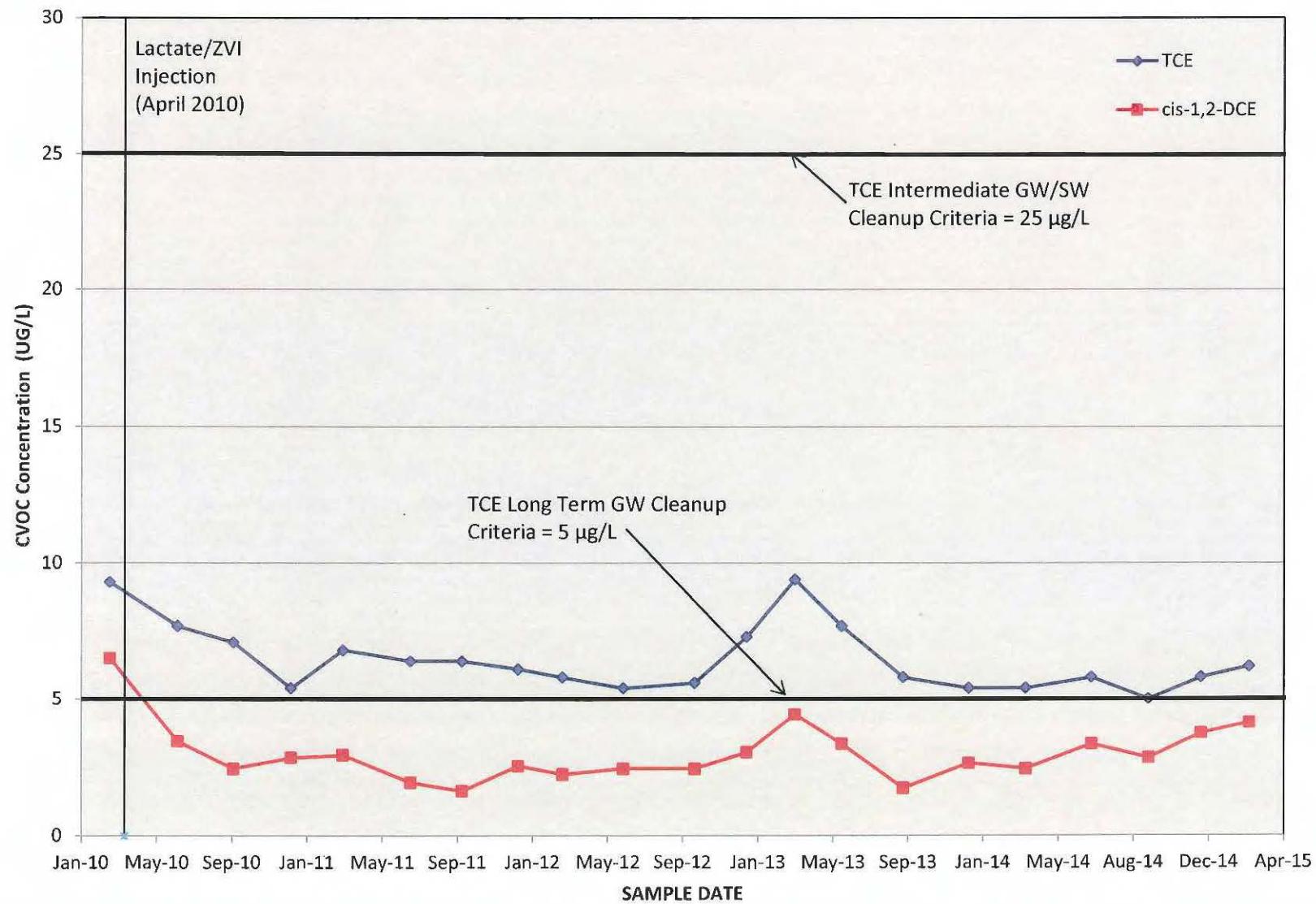
**Figure 18**  
**LTMW-07 CVOC Concentration Trend**



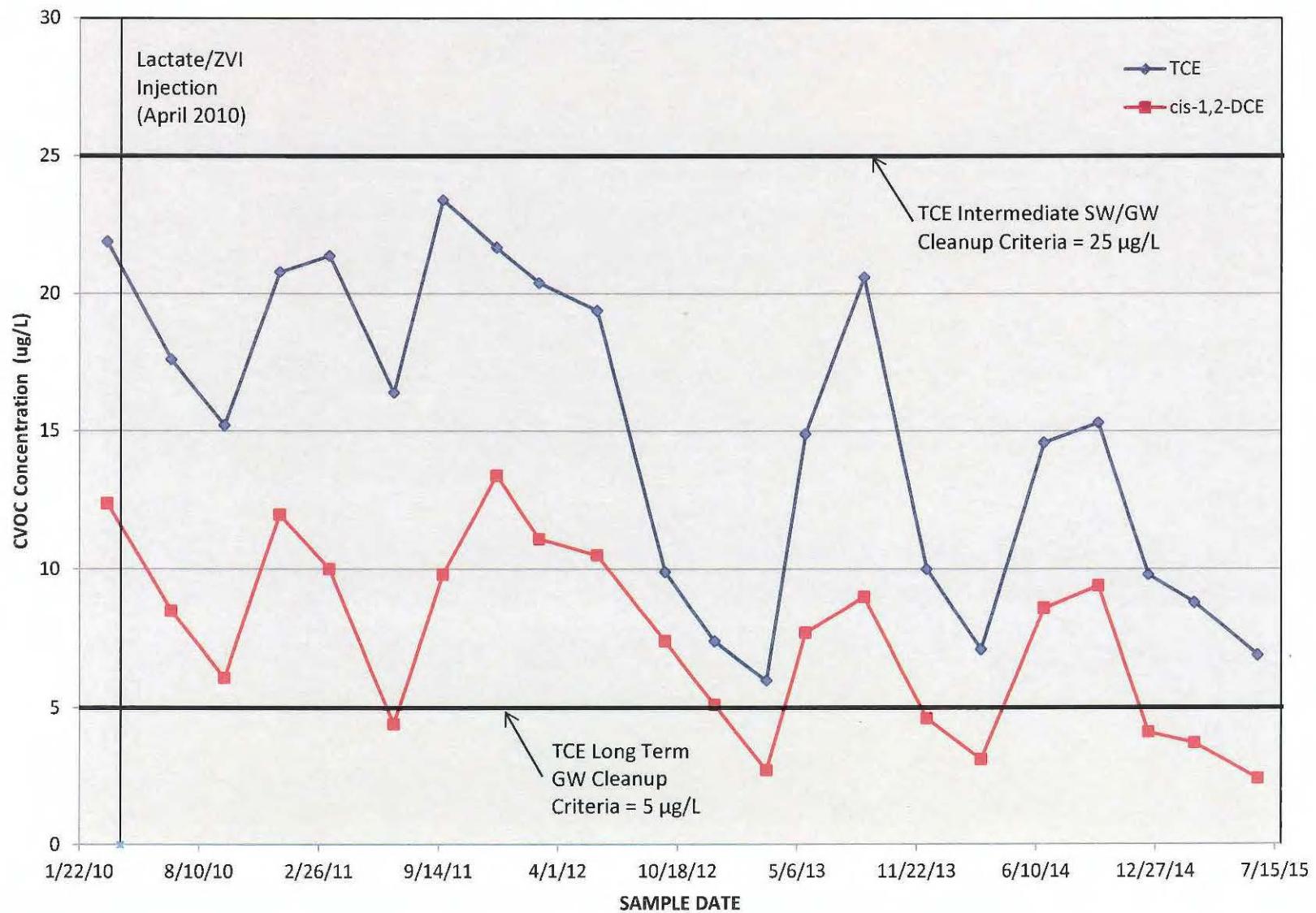
**Figure 19**  
**LTMW-08 CVOC Concentration Trend**



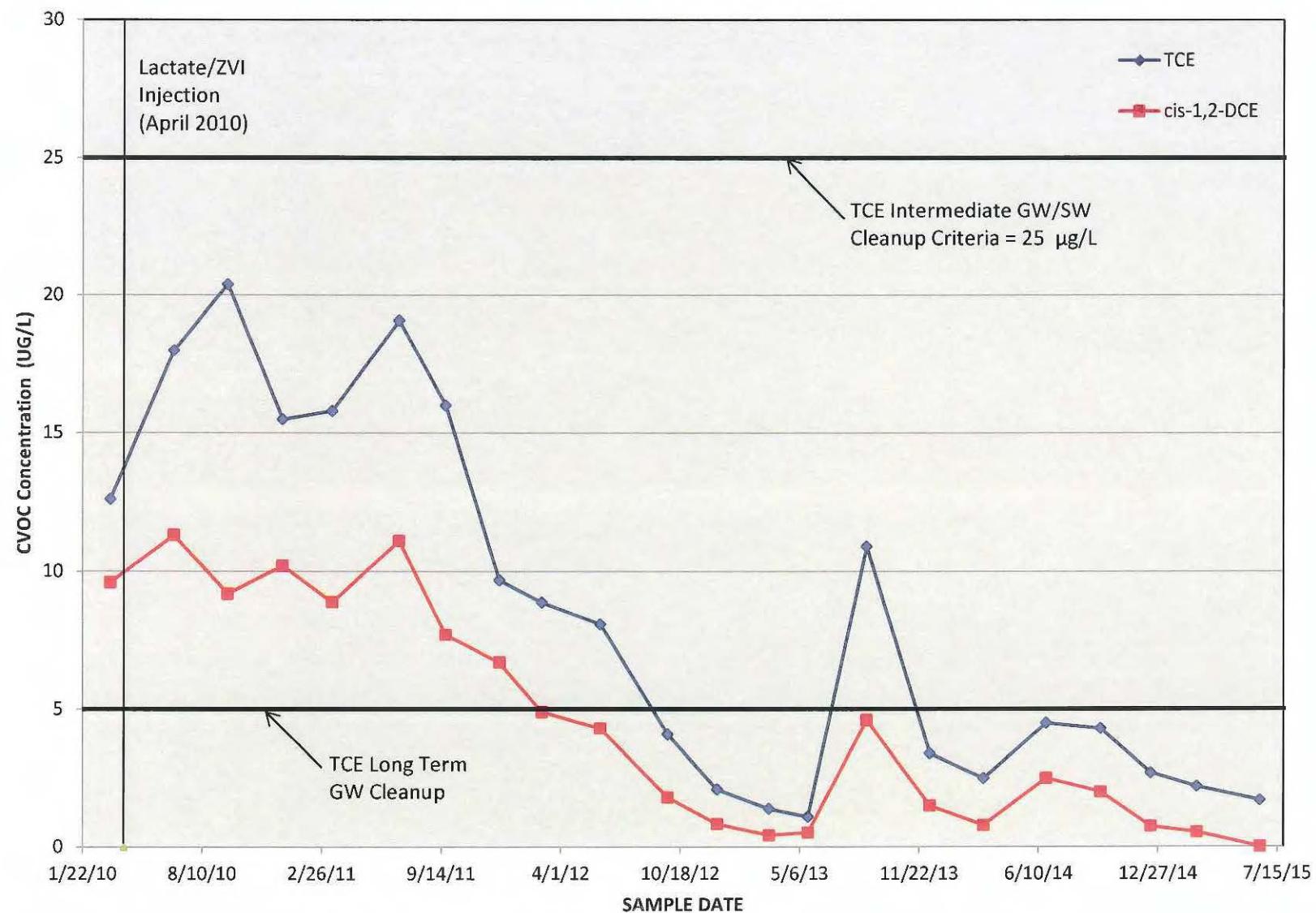
**Figure 20**  
**LTMW-09 CVOC Concentration Trend**



**Figure 21**  
**LTMW-10 CVOC Concentration Trend**



**Figure 22**  
**LTMW-11 CVOC Concentration Trend**



ATTACHMENT

AECOM

## **Attachment 1 - Laboratory Data Report**

July 07, 2015

Jim Buss  
AECOM, Inc. - MADISON  
1350 Deming Way  
Suite 100  
Middleton, WI 53562

RE: Project: 60343108 DANA ROSCOE CORP  
Pace Project No.: 40117042

Dear Jim Buss:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska  
christopher.hyska@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 60343108 DANA ROSCOE CORP  
Pace Project No.: 40117042

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
US Dept of Agriculture #: S-76505  
Wisconsin Certification #: 405132750

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40117042001	LTMW-08	Water	06/16/15 09:20	06/23/15 10:30
40117042002	LTMW-09	Water	06/16/15 10:29	06/23/15 10:30
40117042003	LTMW-10	Water	06/16/15 11:46	06/23/15 10:30
40117042004	LTMW-11	Water	06/16/15 13:09	06/23/15 10:30
40117042005	LTMW-04	Water	06/16/15 14:41	06/23/15 10:30
40117042006	LTMW-05	Water	06/16/15 16:10	06/23/15 10:30
40117042007	DUP-01	Water	06/16/15 00:00	06/23/15 10:30
40117042008	LTMW-06	Water	06/17/15 08:32	06/23/15 10:30
40117042009	LTMW-07	Water	06/17/15 09:55	06/23/15 10:30
40117042010	RB-1	Water	06/17/15 08:55	06/23/15 10:30
40117042011	MW-101	Water	06/17/15 11:38	06/23/15 10:30
40117042012	MW-102	Water	06/17/15 12:43	06/23/15 10:30
40117042013	MW-103	Water	06/17/15 13:54	06/23/15 10:30
40117042014	MW-104	Water	06/17/15 15:04	06/23/15 10:30
40117042015	MW-107	Water	06/17/15 16:46	06/23/15 10:30
40117042016	DUP-02	Water	06/17/15 00:00	06/23/15 10:30
40117042017	LTMW-01	Water	06/18/15 08:26	06/23/15 10:30
40117042018	MW-106	Water	06/18/15 09:22	06/23/15 10:30
40117042019	MW-105	Water	06/18/15 10:35	06/23/15 10:30
40117042020	LTMW-02	Water	06/18/15 11:23	06/23/15 10:30
40117042021	LTMW-03A	Water	06/18/15 12:19	06/23/15 10:30
40117042022	LTMW-03	Water	06/18/15 13:09	06/23/15 10:30
40117042023	TRIP BLANK	Water	06/16/15 00:00	06/23/15 10:30

### REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 60343108 DANA ROSCOE CORP  
 Pace Project No.: 40117042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40117042001	LTMW-08	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042002	LTMW-09	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042003	LTMW-10	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042004	LTMW-11	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042005	LTMW-04	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042006	LTMW-05	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042007	DUP-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042008	LTMW-06	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042009	LTMW-07	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042010	RB-1	EPA 8260	LAP	14	PASI-G
		EPA 6010	DLB	1	PASI-G
40117042011	MW-101	EPA 8260	LAP	14	PASI-G
		EPA 6010	DLB	1	PASI-G
40117042012	MW-102	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042013	MW-103	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042014	MW-104	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042015	MW-107	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042016	DUP-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042017	LTMW-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042018	MW-106	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042019	MW-105	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40117042020	LTMW-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042021	LTMW-03A	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042022	LTMW-03	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40117042023	TRIP BLANK	EPA 8260	LAP	14	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

---

**Method:** EPA 6010

**Description:** 6010 MET ICP

**Client:** AECOM, Inc. - Middleton

**Date:** July 07, 2015

**General Information:**

21 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** AECOM, Inc. - Middleton

**Date:** July 07, 2015

**General Information:**

23 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-08      Lab ID: 40117042001      Collected: 06/16/15 09:20      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/29/15 08:49	06/29/15 20:22	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 09:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 09:12	75-34-3	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.26	1		06/26/15 09:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 09:12	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 09:12	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:12	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:12	108-88-3	
1,1,1-Trichloroethane	0.67J	ug/L	1.0	0.50	1		06/26/15 09:12	71-55-6	
Trichloroethene	2.1	ug/L	1.0	0.33	1		06/26/15 09:12	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 09:12	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/26/15 09:12	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/26/15 09:12	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 09:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: LTMW-09	Lab ID: 40117042002	Collected: 06/16/15 10:29	Received: 06/23/15 10:30	Matrix: Water
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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/29/15 08:49	06/29/15 20:33	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 08:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 08:50	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 08:50	75-34-3	
cis-1,2-Dichloroethene	4.9	ug/L	1.0	0.26	1		06/26/15 08:50	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 08:50	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 08:50	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 08:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 08:50	108-88-3	
1,1,1-Trichloroethane	0.68J	ug/L	1.0	0.50	1		06/26/15 08:50	71-55-6	
Trichloroethene	6.5	ug/L	1.0	0.33	1		06/26/15 08:50	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 08:50	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/26/15 08:50	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/26/15 08:50	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 08:50	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-10      Lab ID: 40117042003      Collected: 06/16/15 11:46      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	4.0J	ug/L	5.0	1.5	1	06/29/15 08:49	06/29/15 20:35	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:35	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 09:35	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 09:35	75-34-3	
cis-1,2-Dichloroethene	2.4	ug/L	1.0	0.26	1		06/26/15 09:35	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 09:35	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 09:35	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:35	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:35	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 09:35	71-55-6	
Trichloroethene	6.9	ug/L	1.0	0.33	1		06/26/15 09:35	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 09:35	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/26/15 09:35	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/15 09:35	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/26/15 09:35	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: LTMW-11	Lab ID: 40117042004	Collected: 06/16/15 13:09	Received: 06/23/15 10:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	1.6J	ug/L	5.0	1.5	1	06/29/15 08:49	06/29/15 20:38	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:57	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 09:57	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 09:57	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 09:57	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 09:57	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 09:57	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:57	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 09:57	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 09:57	71-55-6	
Trichloroethene	1.7	ug/L	1.0	0.33	1		06/26/15 09:57	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 09:57	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/26/15 09:57	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/26/15 09:57	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 09:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-04      Lab ID: 40117042005      Collected: 06/16/15 14:41      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	2.3J	ug/L	5.0	1.5	1	06/29/15 08:49	06/29/15 20:40	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:21	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 10:21	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 10:21	75-34-3	
cis-1,2-Dichloroethene	7.5	ug/L	1.0	0.26	1		06/26/15 10:21	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 10:21	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 10:21	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:21	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:21	108-88-3	
1,1,1-Trichloroethane	0.83J	ug/L	1.0	0.50	1		06/26/15 10:21	71-55-6	
Trichloroethene	11.5	ug/L	1.0	0.33	1		06/26/15 10:21	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 10:21	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/26/15 10:21	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/15 10:21	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		06/26/15 10:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: LTMW-05 Lab ID: 40117042006 Collected: 06/16/15 16:10 Received: 06/23/15 10:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:33	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:43	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 10:43	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 10:43	75-34-3	
cis-1,2-Dichloroethene	4.6	ug/L	1.0	0.26	1		06/26/15 10:43	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 10:43	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 10:43	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:43	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 10:43	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 10:43	71-55-6	
Trichloroethene	9.7	ug/L	1.0	0.33	1		06/26/15 10:43	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 10:43	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/26/15 10:43	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/15 10:43	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 10:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: DUP-01 Lab ID: 40117042007 Collected: 06/16/15 00:00 Received: 06/23/15 10:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:45	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:49	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 14:49	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 14:49	75-34-3	
cis-1,2-Dichloroethene	7.9	ug/L	1.0	0.26	1		06/26/15 14:49	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 14:49	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 14:49	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:49	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:49	108-88-3	
1,1,1-Trichloroethane	0.94J	ug/L	1.0	0.50	1		06/26/15 14:49	71-55-6	
Trichloroethene	11.7	ug/L	1.0	0.33	1		06/26/15 14:49	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 14:49	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/26/15 14:49	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/26/15 14:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 14:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-06      Lab ID: 40117042008      Collected: 06/17/15 08:32      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:47	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 11:05	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 11:05	75-34-3	
cis-1,2-Dichloroethene	10.9	ug/L	1.0	0.26	1		06/26/15 11:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 11:05	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 11:05	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:05	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 11:05	71-55-6	
Trichloroethene	23.5	ug/L	1.0	0.33	1		06/26/15 11:05	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 11:05	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/26/15 11:05	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/26/15 11:05	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/26/15 11:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: LTMW-07 Lab ID: 40117042009 Collected: 06/17/15 09:55 Received: 06/23/15 10:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:49	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:28	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 11:28	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 11:28	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 11:28	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 11:28	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 11:28	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:28	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:28	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 11:28	71-55-6	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/15 11:28	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 11:28	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/26/15 11:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/15 11:28	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 11:28	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: RB-1	Lab ID: 40117042010	Collected: 06/17/15 08:55	Received: 06/23/15 10:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 11:50	75-71-8	
1,1-Dichlorethane	<0.24	ug/L	1.0	0.24	1		06/26/15 11:50	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 11:50	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 11:50	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 11:50	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 11:50	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 11:50	71-55-6	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/15 11:50	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 11:50	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/26/15 11:50	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/15 11:50	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 11:50	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: MW-101      Lab ID: 40117042011      Collected: 06/17/15 11:38      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:52	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:34	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 15:34	75-71-8	
1,1-Dichloroethane	0.72J	ug/L	1.0	0.24	1		06/26/15 15:34	75-34-3	
cis-1,2-Dichloroethene	3.6	ug/L	1.0	0.26	1		06/26/15 15:34	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 15:34	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 15:34	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:34	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:34	108-88-3	
1,1,1-Trichloroethane	0.63J	ug/L	1.0	0.50	1		06/26/15 15:34	71-55-6	
Trichloroethene	19.3	ug/L	1.0	0.33	1		06/26/15 15:34	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 15:34	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/26/15 15:34	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/26/15 15:34	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/26/15 15:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: MW-102      Lab ID: 40117042012      Collected: 06/17/15 12:43      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 15:59	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:57	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 15:57	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 15:57	75-34-3	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.26	1		06/26/15 15:57	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 15:57	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 15:57	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:57	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:57	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 15:57	71-55-6	
Trichloroethene	8.3	ug/L	1.0	0.33	1		06/26/15 15:57	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 15:57	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/26/15 15:57	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/15 15:57	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 15:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: MW-103 Lab ID: 40117042013 Collected: 06/17/15 13:54 Received: 06/23/15 10:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:01	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:13	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 12:13	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 12:13	75-34-3	
cis-1,2-Dichloroethene	3.9	ug/L	1.0	0.26	1		06/26/15 12:13	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 12:13	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 12:13	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:13	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:13	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 12:13	71-55-6	
Trichloroethene	18.4	ug/L	1.0	0.33	1		06/26/15 12:13	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 12:13	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/26/15 12:13	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/15 12:13	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 12:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: MW-104	Lab ID: 40117042014	Collected: 06/17/15 15:04	Received: 06/23/15 10:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:04	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:35	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 12:35	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 12:35	75-34-3	
cis-1,2-Dichloroethene	5.8	ug/L	1.0	0.26	1		06/26/15 12:35	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 12:35	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 12:35	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:35	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:35	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 12:35	71-55-6	
Trichloroethene	17.5	ug/L	1.0	0.33	1		06/26/15 12:35	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 12:35	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/26/15 12:35	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/15 12:35	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/26/15 12:35	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: MW-107 Lab ID: 40117042015 Collected: 06/17/15 16:46 Received: 06/23/15 10:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:06	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:58	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 12:58	75-71-8	
1,1-Dichloroethane	0.47J	ug/L	1.0	0.24	1		06/26/15 12:58	75-34-3	
cis-1,2-Dichloroethene	0.78J	ug/L	1.0	0.26	1		06/26/15 12:58	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 12:58	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 12:58	75-09-2	
Tetrachloroethene	0.59J	ug/L	1.0	0.50	1		06/26/15 12:58	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 12:58	108-88-3	
1,1,1-Trichloroethane	6.8	ug/L	1.0	0.50	1		06/26/15 12:58	71-55-6	
Trichloroethene	8.8	ug/L	1.0	0.33	1		06/26/15 12:58	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 12:58	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/26/15 12:58	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/26/15 12:58	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 12:58	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: DUP-02	Lab ID: 40117042016	Collected: 06/17/15 00:00	Received: 06/23/15 10:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:09	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 15:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 15:12	75-34-3	
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.26	1		06/26/15 15:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 15:12	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 15:12	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:12	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 15:12	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 15:12	71-55-6	
Trichloroethene	7.6	ug/L	1.0	0.33	1		06/26/15 15:12	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 15:12	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/26/15 15:12	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/15 15:12	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/26/15 15:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Sample: LTMW-01      Lab ID: 40117042017      Collected: 06/18/15 08:26      Received: 06/23/15 10:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:11	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 13:20	75-71-8	
1,1-Dichloroethane	2.0	ug/L	1.0	0.24	1		06/26/15 13:20	75-34-3	
cis-1,2-Dichloroethene	13.7	ug/L	1.0	0.26	1		06/26/15 13:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 13:20	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 13:20	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:20	108-88-3	
1,1,1-Trichloroethane	10.4	ug/L	1.0	0.50	1		06/26/15 13:20	71-55-6	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/15 13:20	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 13:20	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/26/15 13:20	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/15 13:20	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 13:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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**Sample: MW-106**      Lab ID: **40117042018**      Collected: 06/18/15 09:22      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:13	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 13:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 13:42	75-34-3	
cis-1,2-Dichloroethene	9.2	ug/L	1.0	0.26	1		06/26/15 13:42	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 13:42	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 13:42	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:42	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 13:42	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 13:42	71-55-6	
Trichloroethene	1.1	ug/L	1.0	0.33	1		06/26/15 13:42	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 13:42	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/26/15 13:42	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/15 13:42	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/26/15 13:42	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: MW-105      Lab ID: 40117042019      Collected: 06/18/15 10:35      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:16	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 14:05	75-71-8	
1,1-Dichloroethane	0.83J	ug/L	1.0	0.24	1		06/26/15 14:05	75-34-3	
cis-1,2-Dichloroethene	3.9	ug/L	1.0	0.26	1		06/26/15 14:05	156-59-2	
trans-1,2-Dichloroethene	2.7	ug/L	1.0	0.26	1		06/26/15 14:05	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 14:05	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:05	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 14:05	71-55-6	
Trichloroethene	0.98J	ug/L	1.0	0.33	1		06/26/15 14:05	79-01-6	
Vinyl chloride	43.3	ug/L	1.0	0.18	1		06/26/15 14:05	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/26/15 14:05	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/26/15 14:05	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		06/26/15 14:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-02      Lab ID: 40117042020      Collected: 06/18/15 11:23      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:18	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/26/15 14:27	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/15 14:27	75-34-3	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.26	1		06/26/15 14:27	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/15 14:27	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/26/15 14:27	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:27	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/26/15 14:27	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/15 14:27	71-55-6	
Trichloroethene	2.9	ug/L	1.0	0.33	1		06/26/15 14:27	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/26/15 14:27	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/26/15 14:27	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/15 14:27	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/26/15 14:27	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-03A      Lab ID: 40117042021      Collected: 06/18/15 12:19      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:21	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/25/15 15:58	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/25/15 15:58	75-71-8	
1,1-Dichloroethane	0.54J	ug/L	1.0	0.24	1		06/25/15 15:58	75-34-3	
cis-1,2-Dichloroethene	10.1	ug/L	1.0	0.26	1		06/25/15 15:58	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/25/15 15:58	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/25/15 15:58	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/15 15:58	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/25/15 15:58	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/15 15:58	71-55-6	
Trichloroethene	27.0	ug/L	1.0	0.33	1		06/25/15 15:58	79-01-6	
Vinyl chloride	6.3	ug/L	1.0	0.18	1		06/25/15 15:58	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/25/15 15:58	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/25/15 15:58	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/25/15 15:58	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: LTMW-03      Lab ID: 40117042022      Collected: 06/18/15 13:09      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	5.0	1.5	1	06/30/15 09:02	06/30/15 16:28	7440-47-3	
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:21	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/25/15 16:21	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/15 16:21	75-34-3	
cis-1,2-Dichloroethene	11.6	ug/L	1.0	0.26	1		06/25/15 16:21	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/25/15 16:21	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/25/15 16:21	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:21	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:21	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/15 16:21	71-55-6	
Trichloroethene	32.6	ug/L	1.0	0.33	1		06/25/15 16:21	79-01-6	
Vinyl chloride	8.0	ug/L	1.0	0.18	1		06/25/15 16:21	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/25/15 16:21	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/25/15 16:21	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/15 16:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

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Sample: TRIP BLANK      Lab ID: 40117042023      Collected: 06/16/15 00:00      Received: 06/23/15 10:30      Matrix: Water

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Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:43	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/25/15 16:43	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/15 16:43	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/25/15 16:43	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/25/15 16:43	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/25/15 16:43	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:43	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/25/15 16:43	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/15 16:43	71-55-6	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/25/15 16:43	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/25/15 16:43	75-01-4	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/25/15 16:43	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/25/15 16:43	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/15 16:43	2037-26-5	

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## QUALITY CONTROL DATA

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

QC Batch:	MPRP/12147	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples: 40117042001, 40117042002, 40117042003, 40117042004, 40117042005			

METHOD BLANK: 1184893 Matrix: Water

Associated Lab Samples: 40117042001, 40117042002, 40117042003, 40117042004, 40117042005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.5	5.0	06/29/15 20:17	

LABORATORY CONTROL SAMPLE: 1184894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1184895 1184896

Parameter	Units	MS 40117042001 Result	MSD Spike Conc.	MS 500 Result	MSD Spike Conc.	MS 503 Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Chromium	ug/L	<1.5	500	500	503	490	490	100	98	75-125	3	20	

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## QUALITY CONTROL DATA

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

QC Batch:	MPRP/12155	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	40117042006, 40117042007, 40117042008, 40117042009, 40117042011, 40117042012, 40117042013, 40117042014, 40117042015, 40117042016, 40117042017, 40117042018, 40117042019, 40117042020, 40117042021, 40117042022		

METHOD BLANK: 1185373 Matrix: Water

Associated Lab Samples: 40117042006, 40117042007, 40117042008, 40117042009, 40117042011, 40117042012, 40117042013, 40117042014, 40117042015, 40117042016, 40117042017, 40117042018, 40117042019, 40117042020, 40117042021, 40117042022

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Chromium	ug/L	<1.5	5.0	06/30/15 15:24	

LABORATORY CONTROL SAMPLE: 1185374

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chromium	ug/L	500	499	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1185375 1185376

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		40117042006	Spike										
Chromium	ug/L	<1.5	500	500	498	493	99	98	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

QC Batch:	MSV/29108	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 40117042001, 40117042002, 40117042003, 40117042004, 40117042005, 40117042006, 40117042007, 40117042008, 40117042009, 40117042010, 40117042011, 40117042012, 40117042013, 40117042014, 40117042015, 40117042016, 40117042017, 40117042018, 40117042019, 40117042020			

METHOD BLANK:	1182103	Matrix:	Water
Associated Lab Samples: 40117042001, 40117042002, 40117042003, 40117042004, 40117042005, 40117042006, 40117042007, 40117042008, 40117042009, 40117042010, 40117042011, 40117042012, 40117042013, 40117042014, 40117042015, 40117042016, 40117042017, 40117042018, 40117042019, 40117042020			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/26/15 06:20	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/26/15 06:20	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	06/26/15 06:20	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	06/26/15 06:20	
Dichlorodifluoromethane	ug/L	<0.22	1.0	06/26/15 06:20	
Methylene Chloride	ug/L	<0.23	1.0	06/26/15 06:20	
Tetrachloroethene	ug/L	<0.50	1.0	06/26/15 06:20	
Toluene	ug/L	<0.50	1.0	06/26/15 06:20	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	06/26/15 06:20	
Trichloroethene	ug/L	<0.33	1.0	06/26/15 06:20	
Vinyl chloride	ug/L	<0.18	1.0	06/26/15 06:20	
4-Bromofluorobenzene (S)	%	99	70-130	06/26/15 06:20	
Dibromofluoromethane (S)	%	107	70-130	06/26/15 06:20	
Toluene-d8 (S)	%	104	70-130	06/26/15 06:20	

LABORATORY CONTROL SAMPLE & LCSD:	1182104	1182105								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.1	56.5	114	113	70-130	1	20	
1,1-Dichloroethane	ug/L	50	50.3	50.0	101	100	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	48.4	49.4	97	99	70-130	2	20	
cis-1,2-Dichloroethene	ug/L	50	47.7	50.4	95	101	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	37.4	36.3	75	73	33-157	3	20	
Methylene Chloride	ug/L	50	48.3	49.6	97	99	70-130	2	20	
Tetrachloroethene	ug/L	50	54.2	54.5	108	109	70-130	0	20	
Toluene	ug/L	50	54.6	54.9	109	110	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	48.8	49.3	98	99	70-130	1	20	
Trichloroethene	ug/L	50	56.1	56.5	112	113	70-130	1	20	
Vinyl chloride	ug/L	50	45.3	46.6	91	93	65-142	3	20	
4-Bromofluorobenzene (S)	%				104	105	70-130			
Dibromofluoromethane (S)	%				100	100	70-130			
Toluene-d8 (S)	%				105	105	70-130			

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**QUALITY CONTROL DATA**

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Parameter	Units	40117042002		MS Spike Conc.		MSD Spike Conc.		MS Result % Rec		MSD % Rec		% Rec Limits	Max RPD	Max RPD	Qual
		Result													
1,1,1-Trichloroethane	ug/L	0.68J	50	50	60.0	59.0	119	117	70-130	2	20				
1,1-Dichloroethane	ug/L	<0.24	50	50	53.1	51.1	106	102	70-134	4	20				
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.4	50.0	103	100	70-130	3	20				
cis-1,2-Dichloroethene	ug/L	4.9	50	50	56.8	57.3	104	105	70-130	1	20				
Dichlorodifluoromethane	ug/L	<0.22	50	50	36.4	35.4	73	71	29-160	3	20				
Methylene Chloride	ug/L	<0.23	50	50	46.5	48.9	93	98	70-130	5	20				
Tetrachloroethene	ug/L	<0.50	50	50	56.1	56.3	112	113	70-130	0	20				
Toluene	ug/L	<0.50	50	50	55.7	55.8	111	112	70-130	0	20				
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.9	51.1	104	102	70-132	1	20				
Trichloroethene	ug/L	6.5	50	50	64.7	62.7	116	112	70-130	3	20				
Vinyl chloride	ug/L	<0.18	50	50	47.1	47.1	94	94	60-155	0	20				
4-Bromofluorobenzene (S)	%							105	105	70-130					
Dibromofluoromethane (S)	%							105	105	70-130					
Toluene-d8 (S)	%							106	107	70-130					

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## QUALITY CONTROL DATA

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

QC Batch:	MSV/29126	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 40117042021, 40117042022, 40117042023			

METHOD BLANK: 1182707 Matrix: Water

Associated Lab Samples: 40117042021, 40117042022, 40117042023

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/25/15 06:59		
1,1-Dichloroethane	ug/L	<0.24	1.0	06/25/15 06:59		
1,4-Dichlorobenzene	ug/L	<0.50	1.0	06/25/15 06:59		
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	06/25/15 06:59		
Dichlorodifluoromethane	ug/L	<0.22	1.0	06/25/15 06:59		
Methylene Chloride	ug/L	<0.23	1.0	06/25/15 06:59		
Tetrachloroethene	ug/L	<0.50	1.0	06/25/15 06:59		
Toluene	ug/L	<0.50	1.0	06/25/15 06:59		
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	06/25/15 06:59		
Trichloroethene	ug/L	<0.33	1.0	06/25/15 06:59		
Vinyl chloride	ug/L	<0.18	1.0	06/25/15 06:59		
4-Bromofluorobenzene (S)	%	105	70-130	06/25/15 06:59		
Dibromofluoromethane (S)	%	106	70-130	06/25/15 06:59		
Toluene-d8 (S)	%	107	70-130	06/25/15 06:59		

LABORATORY CONTROL SAMPLE &amp; LCSD: 1182708

Parameter	Units	Spike Conc.	1182709		LCSD % Rec	LCS % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result						
1,1,1-Trichloroethane	ug/L	50	57.2	59.7	114	119	70-130	4	20	
1,1-Dichloroethane	ug/L	50	54.0	52.8	108	106	70-130	2	20	
1,4-Dichlorobenzene	ug/L	50	50.3	49.9	101	100	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	50	50.4	50.9	101	102	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	49.6	49.7	99	99	33-157	0	20	
Methylene Chloride	ug/L	50	48.6	52.2	97	104	70-130	7	20	
Tetrachloroethene	ug/L	50	56.2	55.1	112	110	70-130	2	20	
Toluene	ug/L	50	55.3	55.7	111	111	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	53.0	53.1	106	106	70-130	0	20	
Trichloroethene	ug/L	50	57.4	58.2	115	116	70-130	1	20	
Vinyl chloride	ug/L	50	53.3	52.9	107	106	65-142	1	20	
4-Bromofluorobenzene (S)	%				105	102	70-130			
Dibromofluoromethane (S)	%				101	106	70-130			
Toluene-d8 (S)	%				105	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 60343108 DANA ROSCOE CORP  
Pace Project No.: 40117042

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 60343108 DANA ROSCOE CORP

Pace Project No.: 40117042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40117042001	LTMW-08	EPA 3010	MPRP/12147	EPA 6010	ICP/10810
40117042002	LTMW-09	EPA 3010	MPRP/12147	EPA 6010	ICP/10810
40117042003	LTMW-10	EPA 3010	MPRP/12147	EPA 6010	ICP/10810
40117042004	LTMW-11	EPA 3010	MPRP/12147	EPA 6010	ICP/10810
40117042005	LTMW-04	EPA 3010	MPRP/12147	EPA 6010	ICP/10810
40117042006	LTMW-05	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042007	DUP-01	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042008	LTMW-06	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042009	LTMW-07	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042011	MW-101	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042012	MW-102	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042013	MW-103	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042014	MW-104	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042015	MW-107	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042016	DUP-02	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042017	LTMW-01	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042018	MW-106	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042019	MW-105	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042020	LTMW-02	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042021	LTMW-03A	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042022	LTMW-03	EPA 3010	MPRP/12155	EPA 6010	ICP/10817
40117042001	LTMW-08	EPA 8260	MSV/29108		
40117042002	LTMW-09	EPA 8260	MSV/29108		
40117042003	LTMW-10	EPA 8260	MSV/29108		
40117042004	LTMW-11	EPA 8260	MSV/29108		
40117042005	LTMW-04	EPA 8260	MSV/29108		
40117042006	LTMW-05	EPA 8260	MSV/29108		
40117042007	DUP-01	EPA 8260	MSV/29108		
40117042008	LTMW-06	EPA 8260	MSV/29108		
40117042009	LTMW-07	EPA 8260	MSV/29108		
40117042010	RB-1	EPA 8260	MSV/29108		
40117042011	MW-101	EPA 8260	MSV/29108		
40117042012	MW-102	EPA 8260	MSV/29108		
40117042013	MW-103	EPA 8260	MSV/29108		
40117042014	MW-104	EPA 8260	MSV/29108		
40117042015	MW-107	EPA 8260	MSV/29108		
40117042016	DUP-02	EPA 8260	MSV/29108		
40117042017	LTMW-01	EPA 8260	MSV/29108		
40117042018	MW-106	EPA 8260	MSV/29108		
40117042019	MW-105	EPA 8260	MSV/29108		
40117042020	LTMW-02	EPA 8260	MSV/29108		
40117042021	LTMW-03A	EPA 8260	MSV/29126		
40117042022	LTMW-03	EPA 8260	MSV/29126		
40117042023	TRIP BLANK	EPA 8260	MSV/29126		

**REPORT OF LABORATORY ANALYSIS**

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(Please Print Clearly)

Company Name:	AECOM
Branch/Location:	Middleton WI
Project Contact:	Jim Buss
Phone:	608-828-8210
Project Number:	60343108
Project Name:	Dana Roscoe Corp
Project State:	FL
Sampled By (Print):	Allen Hollatz
Sampled By (Sign):	<i>Allen Hollatz</i>
PO #:	
Regulatory Program:	

**UPPER MIDWEST REGION**

MN: 612-607-1700 WI: 920-469-2436

Page 1 of

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**CHAIN OF CUSTODY**

\*Preservation Codes  
 A=None B=HCL C=H<sub>2</sub>SO<sub>4</sub> D=HNO<sub>3</sub> E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfite J=Other

FILTERED?  
(YES/NO)PRESERVATION  
(CODE)\*

Y/N

PICK  
LETTER

N

Y

Analyses Requested

 VOC Sulfate Crust  
 TOC  
 Chromat
 

Data Package Options (billable)		MS/MSD	Matrix Codes
<input type="checkbox"/> EPA Level III		<input type="checkbox"/> On your sample (billable)	A = Air W = Water B = Biota DW = Drinking Water C = Charcoal GW = Ground Water O = Oil SW = Surface Water S = Soil WW = Waste Water Sl = Sludge WP = Wipe
<input type="checkbox"/> EPA Level IV		<input type="checkbox"/> NOT needed on your sample	

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS (Lab Use Only)	LAB COMMENTS (Lab Use Only)	Profile #
		DATE	TIME				
014	MW-104	6-17-15	1504	GW	X X	3-40mL <sup>B</sup>	1-250mL <sup>B</sup>
015	MW-107	6-17-15	1646		X X		
016	DLQ-02	6-17-15	0000		X X		
017	LTMW-01	6-18-15	0826		X X		
018	MW-108	6-18-15	0922		X X		
019	MW-105	6-18-15	1035		X X		
020	LTMW-02	6-18-15	1123		X X		
021	LTMW-03A	6-18-15	1219		X X		
022	LTMW-03	6-18-15	1309		X X		
023	Trip Blank	6-16-15	—		X	2-40mL <sup>B</sup>	

Rush Turnaround Time Requested - Prelims  
(Rush TAT subject to approval/surcharge)  
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to  
special pricing and release of liability

Relinquished By: Orleans Clark Date/Time: 6-20-15 1030	Received By: Brian Kryszynski Date/Time: 6/21/15 1410	PACE Project No. 40117012
Relinquished By: Brian Kryszynski Date/Time: 6/21/15 1700	Received By: Legishe Date/Time: 6/21/15	Receipt Temp = 3 °C
Relinquished By: Logistics Date/Time: 6/21/15 1030	Received By: C. Mander Date/Time: 6/23/15 1030	Sample Receipt pH OK / Adjusted
Relinquished By: Date/Time:	Received By: Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 08/14/06

ORIGINAL



## Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Client Name: ABCOM

Project #

WO# : **40117042**

Courier:  FedEx  UPS  Client  Pace Other: O/casters  
Tracking #: \_\_\_\_\_



40117042

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  NoCustody Seal on Samples Present:  Yes  No Seals intact:  Yes  NoPacking Material:  Bubble Wrap  Bubble Bags  None  OtherThermometer Used SR 25 Type of Ice Wet Blue Dry None  Samples on ice, cooling process has begunCooler Temperature Uncorr: 3 /Corr: 3 Biological Tissue is Frozen:  YesTemp Blank Present:  Yes  No  no

Comments: \_\_\_\_\_

Person examining contents:

Date: 6/23/15Initials: EMTemp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	5.	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	8.	
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	9.	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	11.	
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	12.	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	13.	<input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	Initial when completed <u>EM</u>	Lab Std #/ID of preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	14.	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):				

## Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

If checked, see attached form for additional comments Project Manager Review: OBDate: 6-24-15